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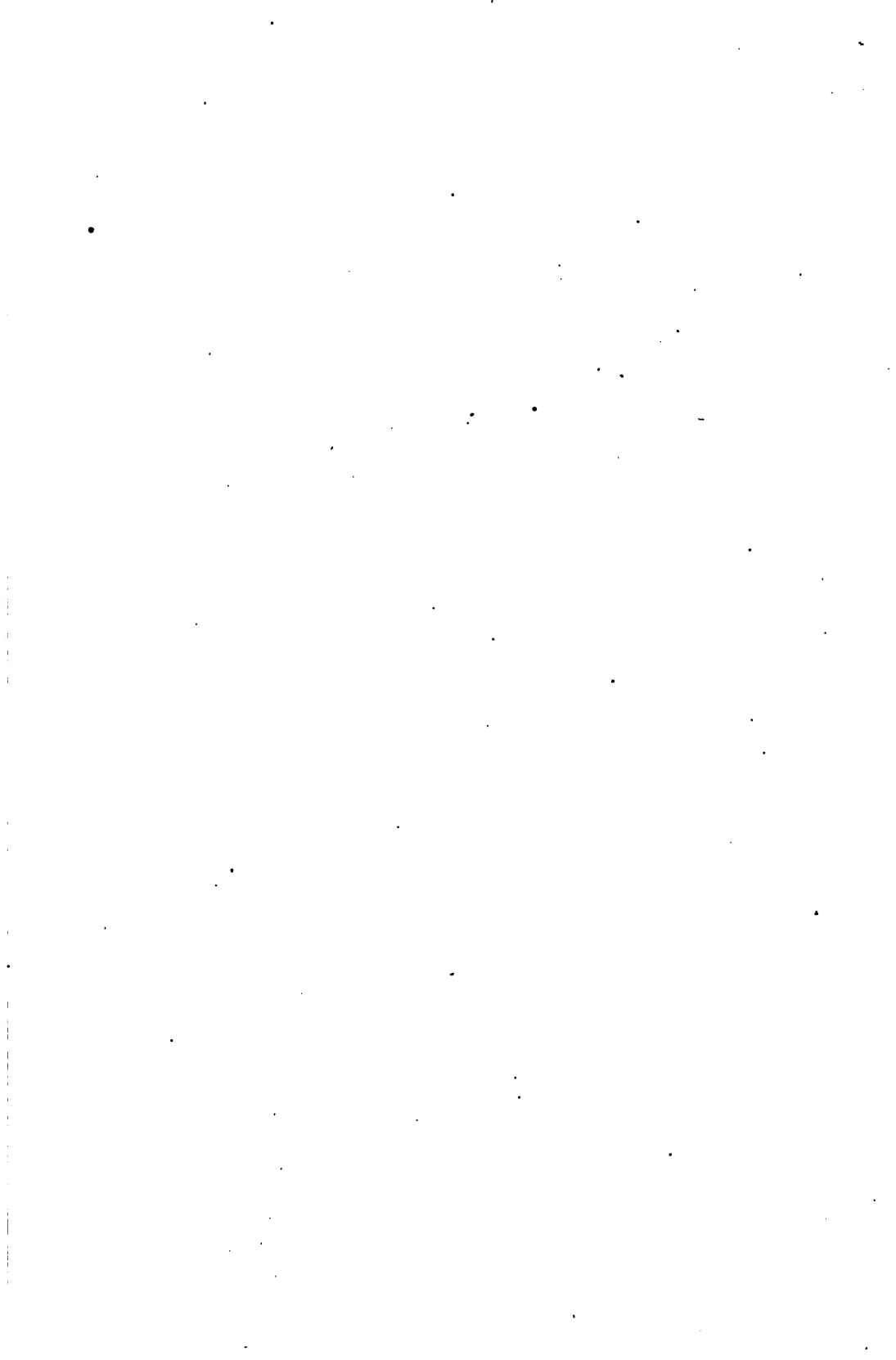
University of Michigan

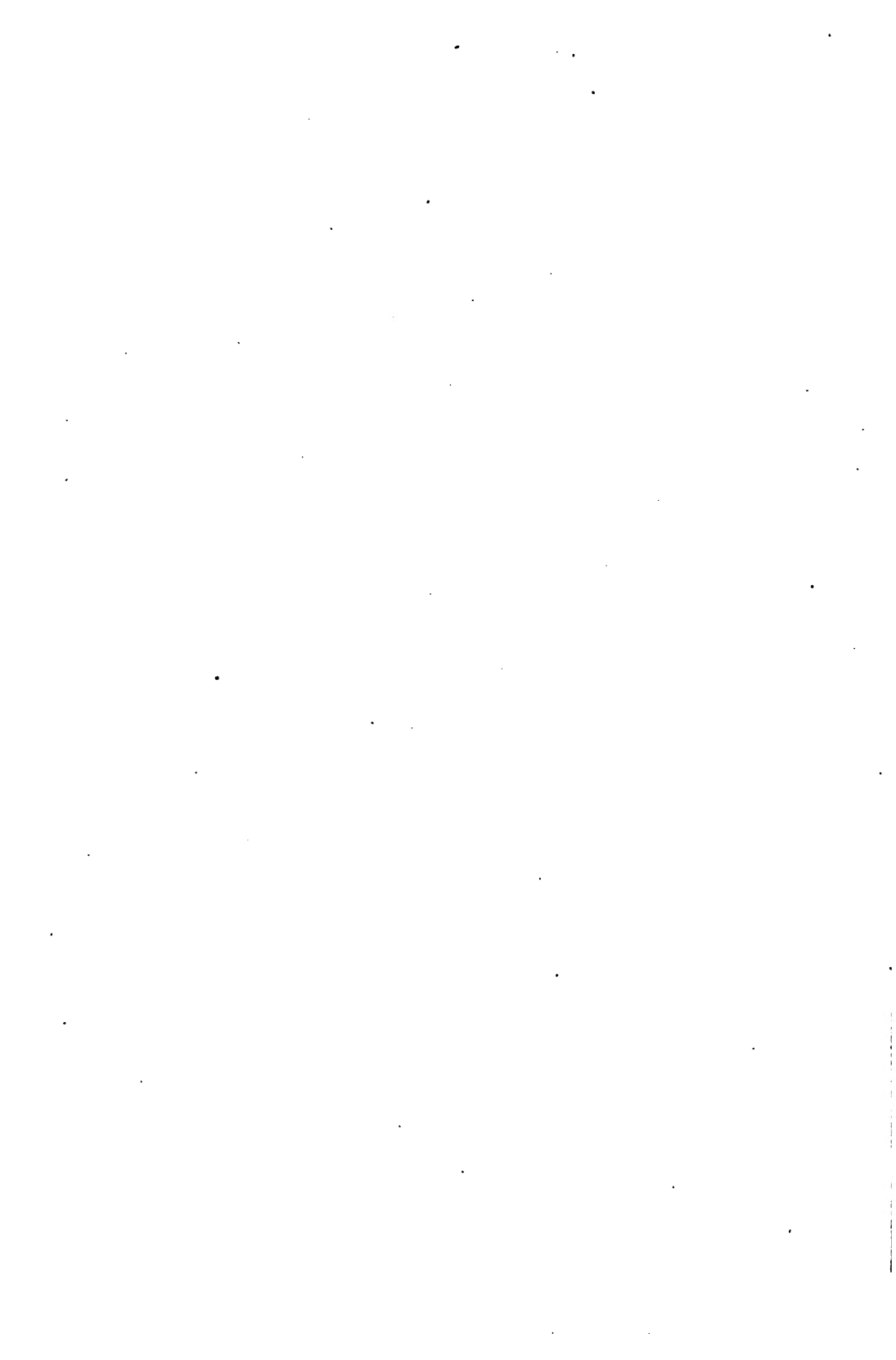
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1962







ANNUAL REPORTS

OF THE

DEPARTMENTS OF GOVERNMENT

OF THE

CITY OF CLEVELAND

FOR THE

Year Ending December 31st, 1888,

TOGETHER WITH THE

MESSAGE OF THE MAYOR.

CLEVELAND, O.:
THE CLEVELAND PRINTING & PUBLISHING CO.
1889.

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1888-89.

CITY GOVERNMENT
OF THE
CITY OF CLEVELAND.

MAYOR,
HON. GEO. W. GARDNER.

CITY SOLICITOR,
ALLAN T. BRINSMADE.

CITY AUDITOR,
J. L. ATHEY.

CITY CLERK,
HOWARD H. BURGESS.

CITY TREASURER,
E. H. BOURNE.

CIVIL ENGINEER,
WALTER P. RICE.

STREET COMMISSIONER,
J. C. SIEGRIST.

CITY COUNCIL.

1889-90.

OFFICERS.

FRANK O. SPENCER,

President City Council.

KAUFMAN HAYS,

Vice President City Council.

HOWARD H. BURGESS,

Clerk.

JOHN C. DELAMATER,

CHARLES F. LEACH,

JOHN J. DALTON,

Assistant Clerks.

ANDREW J. BARNES,

Sergeant-at-Arms.

EDWARD MANNING,

Page.

MEMBERS EX-OFFICIO.

GEO. W. GARDNER Mayor.

JAY L. ATHEY Auditor.

ALLAN T. BRINSMADE Solicitor.

WALTER P. RICE Engineer.

MEMBERS CITY COUNCIL.

1889-90.

Wards.	Names.	Residence.	Place of Business.
1	W. G. Andrews.....	89 Ohio St.....	58 Broadway.
2	Chas. Burnside.....	174 Ontario St.....	352 Canal St.
3	T. N. Fisher.	61 Seneca St.....	59 Seneca St.
4	R. S. Avery.....	192 St. Clair St.....	74 Public Square.
5	C. D. Nolan.....	117 Walnut St.....	117 Walnut St.
6	J. P. Smith.....	152 Lawrence St.....	152 Lawrence St.
7	F. J. Douttiel.....	162 Lyman St.....	162 Lyman St.
8	Jeremiah Sheehan.....	173 Davenport St.....	394 St. Clair St.
9	J. M. Scanlon.....	716 Lake St.....	716 Lake St.
10	W. C. Brace.....	404 Prospect St.....	106 Public Square.
11	Kaufman Hays.....	299 Woodland Ave.....	137 Bank St.
12	Frank Koetering.....	61 Hayward St.....	61 Hayward St.
13	John E. Thomas.....	120 Greenwood St.....	120 Greenwood St.
14	M. M. Hobart.....	333 Sibley St.....	20 Blackstone Block.
15	Robert McQuoid.....	414 Scovill Ave.....	414 Scovill Ave.
16	C. V. Hull.....	306 Perry St.....	Police Court.
17	Frank Hesoun, Jr.....	11 Burwell St.....	138 Water St.
18	J. A. Beidler.....	587 Madison Ave.....	253 Superior St.
19	J. T. Logue.....	1648 Hough Ave.....	City Hall.
20	F. O. Spencer.....	1253 Euclid Ave.....	236 Superior St.
21	R. T. Holden.....	1135 Cedar Ave.....	53 Frankfort St.
22	C. C. Shanklin.....	30 Florence St.....	122 Euclid Ave.
23	W. Tausch.....	1215 Lincoln Ave.....	1215 Lincoln Ave.
24	J. M. Nowak.....	1242 Broadway.....	23 Public Square.
25	Ed. P. Bates.....	39 Brecksville road.....	39 Brecksville road.
26	J. J. Clifford.....	2380 Haddock St.....	2380 Haddock St.
27	Dr. E. W. Poole.....	2064 Miles Ave.....	2588 Broadway.
28	M. J. Moore.....	150 Pearl St.....	233 Pearl St.
29	George Madison.....	20 Hanover Ct.....	Valley R. R. Docks.
30	John H. Wysoon.....	38 Hermann St.....	618 Detroit St.
31	U. B. Hird.....	28 Harbor St.....	28 Harbor St.
32	D. T. Slater.....	16 Pear St.....	57 Merwin St.
33	Dr. M. A. Boesger.....	793 Lorain St.....	793 Lorain St.
34	J. T. Sweeny.....	435 Lorain St.....	435 Lorain St.
35	H. A. Leimkuehler.....	57 Penn St.....	1025 Lorain St.
36	F. V. Faulhaber.....	363 Dare St.....	27 Prospect St.
37	L. I. Pope.....	87 Willey St.....	763 Scranton Ave.
38	E. J. Holmden.....	827 Scranton Ave.....	Water Works Pump'g Str.
39	Henry Schnauffer.....	943 Pearl St.....	Bratenahl Block.
40	Frank Turek.....	32 Bergen St.....	32 Bergen St.

STANDING COMMITTEES—CITY COUNCIL.

1889-90.

Appropriations	Beidler, Poole, Hesoun.
Bathing and Bathing Houses	Holden, Moore, Avery.
Breakwater.....	Sheehan, Thomas, Madison.
Carriages and Express Wagons	Schnauffer, McQuoid, Turek.
Claims.....	Pope, Smith, Faulhaber.
City Property.....	Shanklin, Scanlon, Sweeny.
Department Examinations.....	Holmden, Hays, Nolan.
Elections	Brace, Andrews, Fisher.
Finance.....	Hays, Beidler, Slater.
Fire and Water.....	Andrews, Thomas, Tausch.
Harbors and Wharves	McQuoid, Madison, Holden.
House of Refuge and Correction.....	Hesoun, Shanklin, McQuoid.
Health and Cleanliness.....	Boesger, Bates, Clifford.
Infirmary.....	Scanlon, Boesger, Turek.
Judiciary	Hobart, Hull, Logue.
Licenses	Sweeny, Leimkuehler, Hird.
Lighting	Nowak, Schnauffer, Tausch.
Labor.....	Bates, Kosterling, Hird.
Markets	Leimkuehler, Brace, Turek.
Military	Tausch, Pope, Nolan.
Ordinances	Hull, Nowak, Faulhaber.
Parks and Public Grounds.....	Fisher, Holmden, Burnside.
Police.....	Madison, Leimkuehler, Avery.
Printing	Poole, Beidler, Sheehan.
Public Buildings.....	Thomas, Brace, Schnauffer.
Public Offices and Officers	Kosterling, Madison, Douthiel.
Railroads.....	Douthiel, Boesger, Fisher.
Rules.....	Nolan, Hobart, Poole.
Sewers and Sewerage.....	Clifford, Holden, Moore.
Schools	Faulhaber, Shanklin, Hird.
Streets.....	Logue, Hesoun, Douthiel.
Street Railroads.....	Smith, Kosterling, Hull.
Taxes and Assessments.....	Slater, Holmden, Pope.
Viaduct and Canal Lands.....	Bates, Wysoon, Hird.
Water Works.....	Burnside, Sheehan, Clifford.

Mayor Babcock's Message.

Gentlemen of the City Council:

Being still of the opinion that numerous recommendations and voluminous matter in an annual message will be little favored and as little heeded by your honorable body, that your patience may not be wearied nor you be permitted to lapse into the slumbers of forgetfulness, I shall claim your attention for a few minutes only while performing my last official act and bidding you a final adieu.

With the executive functions of the mayor confined to a narrow sphere, with nearly every department of the city government practically independent, there is but little opportunity for the nominal chief executive to render valuable service to the general public.

Annual reports from the various departments have been received, examined and found to be carefully and intelligently prepared. They having been submitted to your honorable body, it is presumable that your familiarity therewith will render superfluous any general recapitulation or reference thereto at this time.

It has been the policy of the council during the past two years, and particularly of the board of aldermen (now abolished as a part of the municipal government), not to permit any increase of our bonded indebtedness. Let the same policy be rigidly adhered to, and let no bonds be authorized except in cases of unquestioned necessity and emergency. The annual reports of the city auditor, treasurer and

sinking fund commissioners for the fiscal year ending December 31, 1888, show the general financial condition of the city and of the various departments at that date, and are submitted as the statement required by law.

Recent developments show conclusively that a lack of system and far from proper methods have prevailed for many years in the accounts in the department of the city auditor. During the past year a large amount of bonds, many years past due, have been presented for payment, and which, since maturity, have not been reported by the auditor, as a liability of the city. While the method of accounting has been much improved by the present auditor, the adoption of some more thorough system is indispensable to a proper knowledge of the city's financial affairs.

The department of building inspector having been created during the past year, your attention is directed to the very concise and satisfactory report of Inspector Dunn. While it was not intended to be a revenue producing bureau, yet by careful and prudent management the net revenue for the first seven months has exceeded \$1,300. Its records are a source of reliable and important information, the benefits of which accrue to both the owner and occupants of buildings.

Preliminary measures have been taken for the opening of a navigable channel through what is known as the "old river bed," and it is important that an improvement so vital to the welfare of our lake commerce—an interest upon which the growth and prosperity of our city largely depends—should not be unnecessarily delayed.

While the recent action of your honorable body relative to the purchase of lands upon which to locate a city reform school did not meet executive approval, it is becoming daily more evident that a suitable location should be early decided upon, and that the large number of boys, now practically in close confinement at the work-house, be removed to a place better adapted for their proper education and reformation.

With reference to the recent unfortunate occurrence in the department of city treasurer, it need only be said at this time that the credit of the city has not been impaired thereby, nor has it been

necessary to use the city's credit for the purpose of meeting current expenses. The bondsmen are gradually realizing upon the assets of the late treasurer and paying the proceeds over to the city. The city solicitor joins me in the belief that a full and final settlement may soon be expected.

The manner in which the duties of harbor-master have been discharged during the past two years is worthy of special mention. The members of this body should, and undoubtedly will, join with the vessel owners, and, irrespective of politics or other affiliations, sanction a full indorsement of the valuable services of the retiring harbor-master, Capt. Peter Lynch.

My social and official relations with all the heads of departments and with the various boards of which the mayor is ex-officio a member, have been of the most agreeable nature and will long be remembered with pride and satisfaction.

Words can give but poor expression to my sense of gratitude to the city council for the kind, considerate and courteous treatment which I have ever received at their hands.

Political antagonisms have been forgotten, party lines abolished and harmony has prevailed.

I have anxiously been looking forward to the time when relief would come from the cares and annoyance of official duties, but now the time having arrived when I must bid you an official farewell,

“A feeling of sadness comes o'er me

That is not akin to pain,

And resembles sorrow only.

As the mist resembles rain.”

I desire in conclusion to express my high appreciation of the honor conferred by the people in choosing me to this office, and thank them one and all for their generous tolerance and support while mayor of this fair city.

Yours faithfully,

BRENTON D. BABCOCK,

Mayor.

Mayor Gardner's Address.

In taking the chair just vacated by my personal friend and predecessor, who, as an honest man, has as honestly performed the duties of chief executive, I am filled with a sense of the responsibilities now resting with us.

When we shall have closed our official terms and settled our accounts with our electors, may our acts have been such that we can disappear into the obscurity of private life with a fair balance in the public records to our credit.

Most respectfully yours,

GEORGE W. GARDNER,

Mayor.

REPORTS
OF
BOARDS, DEPARTMENTS,
AND
CITY OFFICERS.

Report of the City Solicitor.

Solicitor's Report.

This is the Fourth Annual Report of the transactions of the Law Department of the city government which I have had the honor to present to the legislative body of this city, and it is a source of personal gratification that it is the most satisfactory report that I have presented to your Honorable Body.

Not one dollar has been paid by the City of Cleveland by reason of any judgment obtained against it in any of the courts of the state for the year just closed. This is a record without parallel in the history of the city, or of any other city in the Union. The City of Cleveland has a population of a quarter of a million, a territorial area of twenty-seven square miles, over twelve hundred streets, aggregating nearly five hundred miles in length, and yet no judgment has been obtained against the city in the past year in a single case for damages for personal injury.

There is a less number of cases against the city standing upon the dockets of the several courts of the state than there has been for years, as is shown in the table herein under "General Statement of City's Litigation."

The schedules hereinafter submitted give a complete and detailed statement of the condition of the court dockets so far as the city is concerned, and to which reference is made for confirmation of the above. Brief references will be made to some of the cases wherein the city was a party or was interested.

It is proper that I should again acknowledge the courtesy extended to me by your Honorable Body, and by every member of the City government without an exception; such courtesy I have endeavored at all times to reciprocate, and I desire through the medium of this report to thank the heads of departments, and the several employees of the different departments, for favors shown. The duties of the position have been, during the year just closed, unusually arduous, and have required and received my constant care and attention.

During the year many official communications have been received from the various departments of the City government, asking for my opinion upon certain subjects therein named, to all of which prompt answers were returned. I may add also in this connection that communications have frequently been received from the officials of other cities asking my opinion upon the construction of certain statutes pertaining to municipalities; to all of such, official courtesy required that answers should be returned, which was in all cases cheerfully done.

Many actions have been brought, and many disposed of, during my term of office, against policemen, for damages for assault and battery, false imprisonment and even slander; but in no case has a judgment been obtained against them. These cases are difficult to try, for the reason that the policeman finds it extremely difficult to obtain witnesses, while the person whom he arrests generally has a crowd of "toughs" quite willing to swear against a policeman, for whom they have no great affection. When it becomes necessary for a policeman to use his baton, he cannot always measure his blows so as to hit just so hard, or so softly, and so it is that when his case, where he has been sued for \$5,000, is being tried before twelve "good men and true" a field is presented to the able and honorable attorney for the plaintiff to indulge in vehement denunciation of the "miscreant and dastardly coward who struts around in brass buttons and assaults unoffending, peaceable and law abiding citizens."

Perhaps one of the most important cases disposed of during the year was that of

THE STATE OF OHIO, on the rela-	}	<i>In the Circuit Court.</i>
tion, etc.,		
vs.		
THE CLEVELAND GAS LIGHT AND COKE COMPANY.		

This case was important, for the questions involved the constitutionality of an act of the Legislature which authorizes municipalities to control the price of gas to consumers. The act is as follows:

SECTION 2478, REVISED STATUTES.

“The council of any city, or village, in which gas companies, or gas-light and coke companies, may be established, are hereby empowered to regulate, from time to time, the price which such gas or gas-light and coke companies may charge for gas furnished by such companies to the citizens, public grounds and buildings, streets, lanes, alleys, avenues, wharves and landing places; and such gas-light or gas-light and coke companies shall, in no event, charge more for any gas furnished to such corporation or individuals, than the price specified by ordinance of such council; and such council shall also have power to regulate and fix the price which such companies may charge for the rent of their meters.”

The council, under this section of the statutes, passed an ordinance fixing the price which the company should charge the consumers, at one dollar per thousand cubic feet.

The company was then charging one dollar and twenty-five cents, and declined to reduce the price in conformity with the ordinance, taking the ground that their company obtained its charter before the adoption of the present constitution of the state, and that under such charter the City council had passed an ordinance granting the company the right to lay their pipes in the streets of the city, and charge the inhabitants not to exceed three dollars per thousand feet of gas. This the company claimed was in the nature of a contract with the city, and that the state had no right, under the constitution, to pass a law impairing the obligation of a contract. The company therefore

declining and refusing to conform to the provisions of the ordinance fixing the rate at one dollar, I brought a suit in *quo warranto* in the Circuit Court of Cuyahoga County, to compel the company to comply with the ordinance. To the petition thus filed, the company made answer setting up as one of their defenses the unconstitutionality of the statute referred to. To such portion of the company's answer, the city demurred, upon the ground that it did not constitute a defense, and upon such demurrer and upon which the main questions in the case hinged, the case was heard and disposed of. The demurrer of the city was sustained and the constitutionality of the law maintained.

The result was that the company immediately reduced the price which they were charging consumers for gas, from one dollar and twenty-five cents, to the price fixed by ordinance, to-wit: one dollar, at which price it is still maintained.

If gas bills are still as high as before, by reason of additional pressure being put on by the company, the council have the right also to put on the *pressure* by still further reducing the price which the company shall be permitted to charge.

In this connection it may not be out of place to state that frequent complaints have been made to me of what is claimed to be the exorbitant charges made by the electric lighting companies, and that one company will not furnish their light to a person who desires to withdraw his patronage from the other company. This is a question which properly belongs to the Committee on Legislation of the Common Council, and to which I would respectfully call the attention of the committee, that they may enquire whether additional legislation is not required, giving the council the power to regulate the price which electric lighting companies may charge, as well as natural and artificial gas companies.

PERSONAL INJURY SUITS.

Of the cases disposed of since my last report, where the action was brought for personal injuries, the following is a brief statement:

FRANK D. HOPKINS
vs.
 THE CITY OF CLEVELAND.

In the Court of Common Pleas.

In this case plaintiff brought his suit for damages in the sum of \$10,000 for injuries received by him by slipping on a ridge of ice on Euclid avenue, and breaking his leg. The case was tried twice; at the first trial the jury awarded him a verdict for \$500. A new trial was granted on the motion of the city and at the second trial he was awarded \$400. Again a new trial was granted. The verdicts were sympathy verdicts, and were not warranted either by the facts or law. Subsequent to the second trial the plaintiff died, and the case was revived in the name of his administrator, and at the September term of court the case was dismissed.

ELIZABETH MCARTHUR
vs.
 BENJAMIN ROSE
 and
 THE CITY OF CLEVELAND.

In the Court of Common Pleas.

In this case plaintiff was injured by the falling of a sidewalk by reason of the vault underneath giving way. On the trial of the case and after the evidence was all in for the plaintiff, a motion was made to take the case from the jury so far as the city was concerned, which motion was granted, and thus disposed of the case as to the city.

ELIZABETH ANDERSON
vs.
 THE CITY OF CLEVELAND.

In the Court of Common Pleas.

This was also a case for damages for personal injury received from falling on the ice, plaintiff claiming \$5,000; the accident occurred on Bank street. At the trial of the case the jury rendered a verdict for the city.

NARCISSA S. SPRINGER	}	<i>In the Court of Common Pleas.</i>
vs.		
THE CITY OF CLEVELAND.		

This case was similar to the one above mentioned, the accident occurring at or near the corner of Bridge and Hurd streets; plaintiff claimed \$10,000. The case was dismissed by plaintiff.

MARY O'NEAL	}	<i>In the Court of Common Pleas.</i>
vs.		
THE CITY OF CLEVELAND.		

This action was brought to recover from the city the sum of \$10,000 for injuries received from falling upon a slippery sidewalk on Superior street, but was dismissed for want of prosecution.

DANIEL HAYES	}	<i>In the Court of Common Pleas.</i>
vs.		
THE CITY OF CLEVELAND.		

In this case plaintiff alleged in his petition that he was injured by stumbling upon a gutter bridge at the corner of Root and Turn streets, thereby falling and injuring his shoulder. He sued for \$5,000 damages and the jury returned a verdict for the city. A motion for a new trial was filed by the plaintiff, which the court overruled.

LENA LUETH	}	<i>In the Court of Common Pleas.</i>
vs.		
THE CITY OF CLEVELAND.		

This was an action brought to recover from the city the sum of \$10,000 for injuries alleged to have been sustained by the plaintiff from falling into an excavation in the sidewalk on Euclid avenue, in front of the property upon which the Columbia Theater is now located.

It was claimed that no barriers or lights had been placed at the excavation, and was not properly guarded at night.

Upon receipt of a copy of the petition and an examination of the facts, I concluded that if there was any liability the city was, perhaps, primarily liable, but that the contractors would be ultimately liable. Therefore I caused notices to be served upon the owner of the property, and also upon the contractors, notifying them of the pendency of the suit, and that if a judgment should be obtained against the city, that the city would look to them for indemnity. The verdict, however, was in favor of the city. A motion for a new trial by the plaintiff was overruled.

In the case mentioned of Daniel Hayes vs. the City, a juror was challenged for cause, the ground of the challenge being that no person who has an interest in the cause should be permitted to act as juror. The challenged juror was a taxpayer and it was claimed that thereby he had an interest in the cause and was disqualified. This was one of the principal grounds for a new trial, but the challenge was not sustained by the court. The court, however, ruled that the juror had no such interest in the cause as would disqualify him from sitting on the case.

The aggregate amount claimed in the damage cases against the city for personal injuries, and which cases have been disposed of during the year, was sixty-five (\$65,000) dollars. The amount recovered by the plaintiffs in the same was *nothing*.

THE DEPOSITARY LAW.

The Legislature at its last session passed what is known as the Depositary Law, applicable in its provisions to the City of Cleveland.

The Mayor, President of the Board of Education, and the City Solicitor constitute the depositary commission.

Under this law it is made the duty of the commission to advertise for proposals for the use of the city's money and the award to be made to the bank offering the highest rate of interest. The law is a good one as it is, yet some amendments are required in order to adjust it

more perfectly to the convenience of some of the departments. Senator Taylor, the author of the bill, carefully prepared it, and with whom I had frequent consultation; yet experience has shown that in some of its details it can be improved.

AXWORTHY DEFALCATION.

The defalcation of Mr. Axworthy, the City Treasurer, necessarily added materially to the duties of my department, and I have the satisfaction of knowing that nothing has been left undone which ought to have been done. At the time when it became known that Mr. Axworthy had left the city and was in default to the city to a large amount of money, he had on deposit in several of the banks of the city the sum of (\$447,450.05) four hundred and forty-seven thousand, four hundred and fifty dollars and five cents, which was deposited in his own name and to his own credit. Suit was brought by his bondsmen against him and the money in the banks was attached as Axworthy's personal property. The banks as well as the bondsmen were immediately notified that the money so deposited by Mr. Axworthy was in fact the money of the city, and demand was made for it. The money not being paid upon such demand, suits were commenced immediately as follows:

Against the National Bank of Commerce for.....	\$195,829.16
Against the Union National Bank for.....	147,944.78
Against the Mercantile National Bank for.....	60,300.05
Against the Cleveland National Bank for.....	19,535.37
Against the Ohio National Bank for.....	15,986.80
Against the Commercial National Bank for.....	7,853.89

Of the above amounts there has been collected and paid over to the City Treasurer the sum of \$439,596.16, leaving only \$7,853.89 to be collected, which amount, however, is in the hands of the Clerk of the Court of Common Pleas and will shortly be paid over to the city. As soon as the experts can obtain from the books the exact amount of Mr. Axworthy's defalcation, the bondsmen will be required to settle or suit will be commenced to recover the deficit.

CODIFICATION OF ORDINANCES.

The ordinances of the city were revised and consolidated in July, 1882, since which time there has been no revision of the ordinances; numerous amendments have been made to existing ordinances, and a large number of ordinances passed since the codification in 1882, and to such an extent as to render the present book of ordinances comparatively worthless, so far as being any guide to existing ordinances. The book of ordinances should be codified at least every five years. Six and one-half years have elapsed since the present one was published, and I respectfully recommend to your Honorable Body that the necessary steps be taken for a thorough revision and codification of the ordinances of the city.

COLLECTIONS.

The following amounts (exclusive of the amounts collected from the National Banks heretofore mentioned) have been collected during the year and turned over to the City Treasurer, for which vouchers are on file in my office :

Rents	\$1235.00
Daykin Brothers.....	16.86
Tug C. C. Curtis.....	10.00
J. G. W. Cowles (sale of land).....	7500.00
Total.....	\$8761.86

DOCKETS AND FILES.

There are kept in my office dockets showing the exact *status* of every case in which the city is a part, taken directly from the Court dockets. Copies of all pleadings are made and kept systematically filed, and when a case is disposed of all the papers connected with it are filed with the "disposed cases", bearing the number which it has in the Court docket.

I respectfully invite the Council committee on "Department examination" to a careful investigation of the system employed in the law department.

LAW LIBRARY.

A list of the law books added to the library in this office is hereinafter appended.

INVENTORY.

There has been filed on this date with the City Auditor an accurate and complete schedule of all city property in the several rooms occupied by this department, upon which an estimated value is placed of \$1,413.50.

This has been done for the reason that the Auditor should have complete the entire assets of the city.

In concluding this my Fourth Annual Report, I again wish to testify to the faithfulness and competency of the Second Assistant Solicitor, Daniel F. Reynolds, jr. No man could have filled the position more acceptably than he.

Respectfully submitted,

ALLAN T. BRINSMADE,

December 31st, 1888.

City Solicitor.

REPORT OF CITY'S LITIGATION,

FROM JANUARY 1ST, 1888, TO JANUARY 1ST, 1889.

Cases pending January 1st, 1888 :

Supreme Court of the United States.....	1
Circuit Court of the United States.....	1
Supreme Court of Ohio.....	5
Circuit Court of Cuyahoga County.....	17
Common Pleas Court of Cuyahoga County.....	70
Probate Court of Cuyahoga County.....	0
Magistrate Courts.....	0
Total.....	94

Cases commenced from January 1st, 1888, to January 1st, 1889 :

Supreme Court of the United States.....	0
Circuit Court of the United States.....	0
Supreme Court of Ohio.....	0
Circuit Court of Cuyahoga County.....	3
Common Pleas Court of Cuyahoga County.....	32
Probate Court of Cuyahoga County.....	5
Magistrate Courts.....	19
Total.....	59

Cases disposed of from January 1st, 1888, to January 1st, 1889 :

Supreme Court of the United States.....	0
Circuit Court of the United States.....	1
Supreme Court of Ohio.....	0
Circuit Court of Cuyahoga County.....	12
Common Pleas Court of Cuyahoga County.....	31
Probate Court of Cuyahoga County.....	5
Magistrate Courts.....	19
Total.....	68

Cases pending January 1st, 1889 :

Supreme Court of the United States.....	1
Circuit Court of the United States.....	0
Supreme Court of Ohio.....	5
Circuit Court of Cuyahoga County.....	8
Common Pleas Court of Cuyahoga County.....	71
Probate Court of Cuyahoga County.....	0
Magistrate Courts.....	0
Total.....	85

ACTIONS AGAINST THE CITY.

Of the cases pending against the city in the various courts on the first day of January, 1888, the following is a synopsis :

Fifteen (15) were actions for the recovery of back taxes; eleven (11) were suits for damages to property; nine (9) were suits for personal injury, and seven (7) were suits for false imprisonment brought against patrolmen and others, and are distributed as follows :

In the 15 cases for back taxes.....	\$ 12,245 24
In the 11 cases for damage to property.....	120,850 00
In the 9 cases for personal injury.....	80,000 00
In the 7 cases for false imprisonment.....	52,000 00
Total amount claimed in 42 cases.....	\$265,095 24

CASES COMMENCED AGAINST THE CITY DURING THE YEAR.

Of the cases commenced against the city during the year 1888, no action was brought for the recovery of back taxes; two (2) were suits for damage to property; five (5) were suits for personal injury and two (2) were suits for false imprisonment brought against patrolmen and others and are distributed as follows :

In the — cases for back taxes.....	\$
In the 2 cases for damage to property.....	3,240 00
In the 5 cases for personal injury.....	40,000 00
In the 2 cases for false imprisonment.....	20,000 00
Total amount claimed in 9 cases.....	\$ 63,740 00

RECAPITULATION.

The total amount of money claimed in actions against the city, as above set forth, for damage to property, personal injury, false imprisonment against patrolmen, and for the recovery of back taxes, in which compensation was claimed through the alleged fault of the city, in the cases pending January 1st, 1888, and those commenced during the year 1888, is as follows :

In the 15 cases for back taxes.....	\$ 12,245 24
In the 13 cases for damage to property.....	124,500 00
In the 14 cases for personal injury.....	120,000 00
In the 9 cases for false imprisonment.....	72,000 00
Total amount claimed in 51 cases.....	\$ 328,835 24

CASES DISPOSED OF AGAINST THE CITY DURING THE YEAR.

Of the 51 cases pending January 1st, 1888, and commenced during the year against the city for the recovery of back taxes, damages to property, personal injury and false imprisonment, where compensation was claimed through the alleged fault of the city or its officers and agents, fifteen (15) have been disposed of during the year and are distributed as follows :

AMOUNT CLAIMED.

In 2 cases for back taxes.....	\$ 240 32
In 3 cases for damage to property.....	15,500 00
In 7 cases for personal injury.....	65,000 00
In 3 cases for false imprisonment.....	17,000 00
Total amount claimed in 15 cases.....	\$ 97,740 32

AMOUNT RECOVERED.

In 2 cases for back taxes.....	\$ 240 32
In 3 cases for damage to property.....	.....
In 7 cases for personal injury.....	.....
In 3 cases for false imprisonment.....	.....
Total amount recovered in 15 cases.....	\$ 240 32

The total amount of money involved in cases pending January 1st, 1888, and those commenced during the year, in which compensation is claimed for damage to property and person, and including actions for the recovery of back taxes and false imprisonments against patrolmen, but excluding injunction proceedings to restrain the collection of taxes and special assessments levied by the city, also ejectment suits, wherein real property only was sought to be removed, and other suits wherein no pecuniary compensation is demanded from the city, is as follows :

In cases pending January 1st, 1888.....	\$ 265,065 24
In cases commenced during the year.....	63,740 00
Total.....	\$ 328,835 24
In cases disposed of during the year.....	\$ 97,740 32
In cases pending January 1st, 1889.....	\$ 231,094 92

ACTIONS FOR THE CITY.

CASES PENDING JANUARY 1st, 1888.

There were pending on the 1st day of January, 1888, in the various courts of the State, five (5) cases which were brought by the city, and eight (8) more were brought during the year, in which cases the city sought to collect special assessments and other money, and are distributed as follows :

Total amount claimed in above cases.....	\$ 468,444 70
Total amount recovered during the year.....	439,948 17
Amount due in six undisposed of cases.....	\$ 28,496 53

INJUNCTIONS.

On the 1st day of January, 1888, there were pending in the various courts of the State, thirty-one (31) cases enjoining the County Treasurer from collecting special and other assessments, the most of which cases are against the collection of assessments made by the City Council several years back.

There have been commenced during the year for similar purposes six (6) cases, all of which are distributed as follows :

In the Supreme Court of Ohio.....	3 cases.
In the Circuit Court of Cuyahoga County.....	7 cases.
In the Common Pleas Court of Cuyahoga County.....	27 cases.
Total pending and commenced.....	37 cases.

Of the above, the following have been disposed of during the year :

In the Circuit Court	5 cases.
In the Common Pleas Court.....	13 cases.
Total number disposed of during the year.....	18 cases.

PROBATE COURT PROCEEDINGS.

The following is a statement of cases commenced and disposed of in the Probate Court of Cuyahoga County during the year 1888.

In compliance to the several ordinances passed during the year by the Common Council, for the appropriation of land for the purpose of widening, opening and extending of several of the streets of the city, there have been commenced in the above mentioned court, four (4) cases.

One case has also been commenced and disposed of to assess the damages claimed to have been sustained by reason of the grading of Petrie street, from Broadway to a point 3,325 feet southerly from Broadway.

APPROPRIATION CASES.

Platt street extension.....	\$ 1,000 00
Stanton street extension.....	1,650 00
Lorain street improvement (plank road).....	845 98
Seranton street school (land for).....	8,385 00
Total.....	\$11,880 98

DAMAGE CASES.—STREET GRADING.

PETRIE STREET GRADING, BROADWAY TO A POINT SOUTH.

Claimants.	Amount Claimed.	Amount Awarded.
Elizabeth Ashbury.....	\$ 800 00	\$ 700 00
C. F. Zoschnik.....	750 00	59 16
Frank Vakar.....	300 00	
Frank Kontnik.....	300 00	
Conrad Schmitt.....	300 00	
Vincene Vachuta.....	300 00	
Marie Kahonec.....	250 00	
John Matousek.....	300 00	
Mary Karl.....	100 00	
Total.....	\$3,400 00	\$ 759 16

Table showing the nature of cases pending January 1, 1888:

Actions to recover back taxes.....	15
Actions enjoining the collection of back taxes.....	31
Actions to collect back tax and assessments.....	5
Actions for damage to property.....	11
Collection of rent for dockage.....	1
Personal injury.....	9
False imprisonment.....	7
Actions to recover back pay.....	4
Foreclosure proceedings.....	1
Mandamus.....	1
Actions in which City was made garnishee.....	2
Action to quiet title.....	1
Suit to recover on contract.....	3
Appeal from Probate Court (appropriation cases).....	2
Action in aid of execution.....	1
Total.....	94

Table showing nature of cases commenced from January 1, 1888, to January 1, 1889:

Actions where City was made garnishee.....	24
Appropriation of land.....	4
Personal injury	5
False imprisonment.....	2
Actions to quiet title.....	1
Actions to enjoin the collection of assessments.....	6
Injunctions other than for the collection of tax.....	1
Damage to property	3
Actions to recover on contracts.....	2
Suit for back pay	3
Possession of land.....	1
Collection of dock rent	1
Recovery of money only.....	6
Total.....	59

Table showing the nature of cases disposed of from January 1st, 1888, to January 1, 1889:

Actions enjoining the collection of assessments.....	18
Actions to recover back taxes.....	2
Actions for damage to property.....	3
Actions for damage to persona.....	7
False imprisonment.....	3
Appropriation proceedings.....	5
Actions to recover back salary.....	2
Actions to quiet title.....	2
Attachment proceedings (City garnishee).....	19
Suit for costs in Justice Court.....	1
Injunction proceedings other than collection of tax.....	1
Suits to recover on contracts.....	2
Action to subject land for tax.....	1
Mandamus.....	1
Quo Warranto	1
Total.....	68

THE FOLLOWING IS A TABULATED STATEMENT OF CASES PENDING, COMMENCED AND DISPOSED OF IN
THE VARIOUS COURTS FOR EACH YEAR FROM 1879 TO 1889.

CASES PENDING.

Courts.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Supreme Court of the United States	0	0	0	0	0	0	0	0	1	1
Circuit Court of the United States	0	3	4	4	4	4	4	2	1	1
Supreme Court of Ohio	17	9	8	8	14	13	15	7	4	5
District and Circuit Court of Cuyahoga County	20	14	19	21	16	18	18	16	17	17
Common Pleas Court of Cuyahoga County	118	197	195	150	142	160	219	139	118	70
Probate Court of Cuyahoga County	0	1	0	2	0	1	0	0	1	0
Magistrate Courts	0	1	1	0	0	0	0	0	0	0
Total	155	225	227	185	176	193	256	164	142	94

TABULATED STATEMENT OF CASES. — *Continued.*

CASES COMMENCED.

COURTS.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Supreme Court of the United States	0	0	0	0	0	0	0	0	1	0
Circuit Court of the United States	0	3	0	0	0	0	0	0	0	0
Supreme Court of Ohio	5	4	2	5	8	5	1	0	2	0
District and Circuit Court of Cuyahoga County	22	15	15	12	11	7	9	8	4	3
Common Pleas Court of Cuyahoga County	191	63	30	37	50	87	40	31	28	32
Probate Court of Cuyahoga County	2	7	15	7	3	6	5	4	7	5
Magistrate Courts	16	10	17	21	22	32	52	22	41	19
Total	239	102	79	82	94	137	87	65	83	59

REPORT OF THE CITY SOLICITOR.

TABULATED STATEMENT OF CASES.—Continued.

CASES DISPOSED OF.

Courts.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Supreme Court of the United States	0	0	0	0	0	0	0	0	0	0
Circuit Court of the United States	0	2	0	0	0	0	2	1	1	1
Supreme Court of Ohio	13	5	2	0	9	3	9	3	1	1
District and Circuit Court of Cuyahoga County	28	9	13	17	9	7	11	7	4	12
Common Pleas Court of Cuyahoga County	112	73	75	45	32	28	120	52	76	31
Probate Court of Cuyahoga County	1	6	15	7	3	6	5	4	8	5
Magistrate Courts	15	10	17	23	21	33	32	21	41	19
Total	169	105	122	92	74	77	179	88	131	68

GENERAL STATEMENT OF CITY'S LITIGATION.

FOR THE PURPOSE OF SHOWING THE CITY'S LITIGATION FOR THE PAST TEN YEARS IN ALL THE COURTS,
THE FOLLOWING IS A RECAPITULATION.

	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Cases pending at beginning of year	155	225	222	180	170	190	250	164	142	94
Cases commenced during the year	240	105	80	82	94	137	87	66	83	59
Cases pending at beginning of and commenced during the year	395	330	302	262	264	327	337	230	225	153
Cases disposed of during the year	170	108	122	92	74	77	179	88	131	68
Cases pending at end of the year	225	222	180	170	180	250	158	142	94	85

REPORT OF THE CITY SOLICITOR.

STATEMENT OF THE AMOUNT SOUGHT TO BE RECOVERED, AND THE AMOUNT ACTUALLY RECOVERED IN THE CASES PENDING
 AGAINST THE CITY FOR THE PAST TEN YEARS, WHEREIN DAMAGES TO THE PROPERTY AND PERSON
 OF THE LITIGANT WAS CLAIMED THROUGH THE ALLEGED FAULT OF THE CITY.

	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
In cases pending at the beginning of and instituted during the year.....	\$561,352 32	\$535,141 20	\$595,214 82	\$603,205 29	\$590,466 14	\$594,665 64	\$564,657 40	\$402,513 82	\$376,683 65	\$328,835 24
In cases pending at the close of the year.....	\$161,326 98	\$425,766 71	\$509,179 53	\$111,535 92	\$457,326 47	\$439,687 10	\$394,112 98	\$286,507 50	\$283,826 60	\$231,094 92

STATEMENT OF THE AMOUNT SOUGHT TO BE RECOVERED, AND THE AMOUNT ACTUALLY RECOVERED, IN THE DISPOSED
OF CASES AGAINST THE CITY FOR THE PRECEDING TEN YEARS, WHEREIN DAMAGE TO THE
PROPERTY OR PERSON OF THE LITIGANT WAS CLAIMED THROUGH THE
ALLEGED FAULT OF THE CITY.

Disposed of Cases.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Number of cases.....	170	108	122	92	74	77	179	88	131	68
Amount claimed	\$100,025 34	\$ 48,742 60	\$ 62,118 62	\$ 83,932 44	\$ 37,977 09	\$ 80,629 72	\$147,935 28	\$ 42,466 24	\$ 40,387 80	\$ 97,740 32
Amount recovered	\$ 150 00	\$ 379 00	\$ 560 51	\$ 8,926 60	\$ 9,341 59	\$ 1,836 01	\$ 815 60	\$ 2,185 32	\$ 11,472 34	\$ 240 32

The amount involved in actions brought in the Probate Court are not included in the above table.

REPORT OF THE CITY SOLICITOR.

STATEMENT OF THE AMOUNT OF DAMAGES CLAIMED AND AWARDED TO PROPERTY OWNERS, CAUSED BY THE GRADING AND
IMPROVING OF STREETS, IN CASES TRIED IN THE PROBATE COURT, FROM JANUARY 1, 1879,
TO JANUARY 1, 1889.

	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Amount claimed.....	\$ 240 00	.....	\$ 1,022 50	\$ 8,721 69	\$ 5,770 07	\$ 2,110 72	\$ 2,370 28	\$ 99,700 00	\$ 11,500 00	\$ 3,400 00
Amount awarded.....	\$ 200 00	.....	\$ 324 00	\$ 1,205 00	\$ 2,886 74	\$ 886 01	\$ 815 60	\$ 39,324 12	\$ 1,040 00	\$ 759 16
Claimed more than awarded .....	.....	.....	\$ 698 50	\$ 7,516 69	\$ 2,873 33	\$ 1,274 71	\$ 1,554 68	\$ 60,375 88	\$ 10,460 00	\$ 2,640 84

THE FOLLOWING LIST OF LAW BOOKS HAVE BEEN ADDED TO THE LIBRARY IN
THE OFFICE OF THE CITY SOLICITOR DURING THE YEAR 1888.

Volume 1—Lewin on Trusts.

"	2—	"	"	"		
"	1—	Perry on Trusts.				
"	2—	"	"	"		
"	45—	Ohio State Reports.				
"	1—	Cincinnati Law Bulletin.				
"	2—	"	"	"		
"	3—	"	"	"		
"	4—	"	"	"		
"	5—	"	"	"		
"	6—	"	"	"		
"	8—	Waite's Actions and Defenses.				
"	1—	Sutherland on Damages.				
"	2—	"	"	"		
"	3—	"	"	"		
"	19—	Weekly Law Bulletin.				
"	20—	"	"	"		
"	1—	Smith's Leading Cases.				
"	2—	"	"	"		
"	1—	Cleveland Law Reporter.				
"	2—	"	"	"		
"	3—	American and English Encyclopædia of Law.				
"	4—	"	"	"	"	"
"	5—	"	"	"	"	"
"	6—	"	"	"	"	"
"	16—	American and English Corporation Cases.				
"	17—	"	"	"	"	"
"	18—	"	"	"	"	"
"	19—	"	"	"	"	"
"	20—	"	"	"	"	"
"	21—	"	"	"	"	"

Volume 14—Northeastern Reporter.

"	15—	"	"
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"	16—	"	"
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"	17—	"	"
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"	35—	Northwestern Reporter.
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"	36—	"	"
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"	37—	"	"
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"	38—	"	"
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"	39—	"	"
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"	11—	Atlantic Reporter.
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"	12—	"	"
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"	13—	"	"
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"	14—	"	"
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"	15—	"	"
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"	15—	Pacific Reporter.
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"	16—	"	"
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"	17—	"	"
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"	18—	"	"
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"	6—	Southwestern Reporter.
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"	7—	"	"
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"	8—	"	"
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"	4—	Southeastern Reporter.
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"	5—	"	"
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"	6—	"	"
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"	3—	Southern Reporter.
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"	4—	"	"
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"	27—	American Law Register.
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2 Volumes—American Law Digest.

1 Volume—United States Digest.

1 " —Whittaker's Probate Code.

1 " —Freeman on Executions.

1 " —Whittaker's Code.

1 " —Gould on Watercourses.

1 " —Lewis on Eminent Domain.

1 " —Elliott's Advocacy.

Total number of volumes, 66.

Report of Health Department.

CLEVELAND, O., January 9th, 1889.

To the Honorable Common Council:

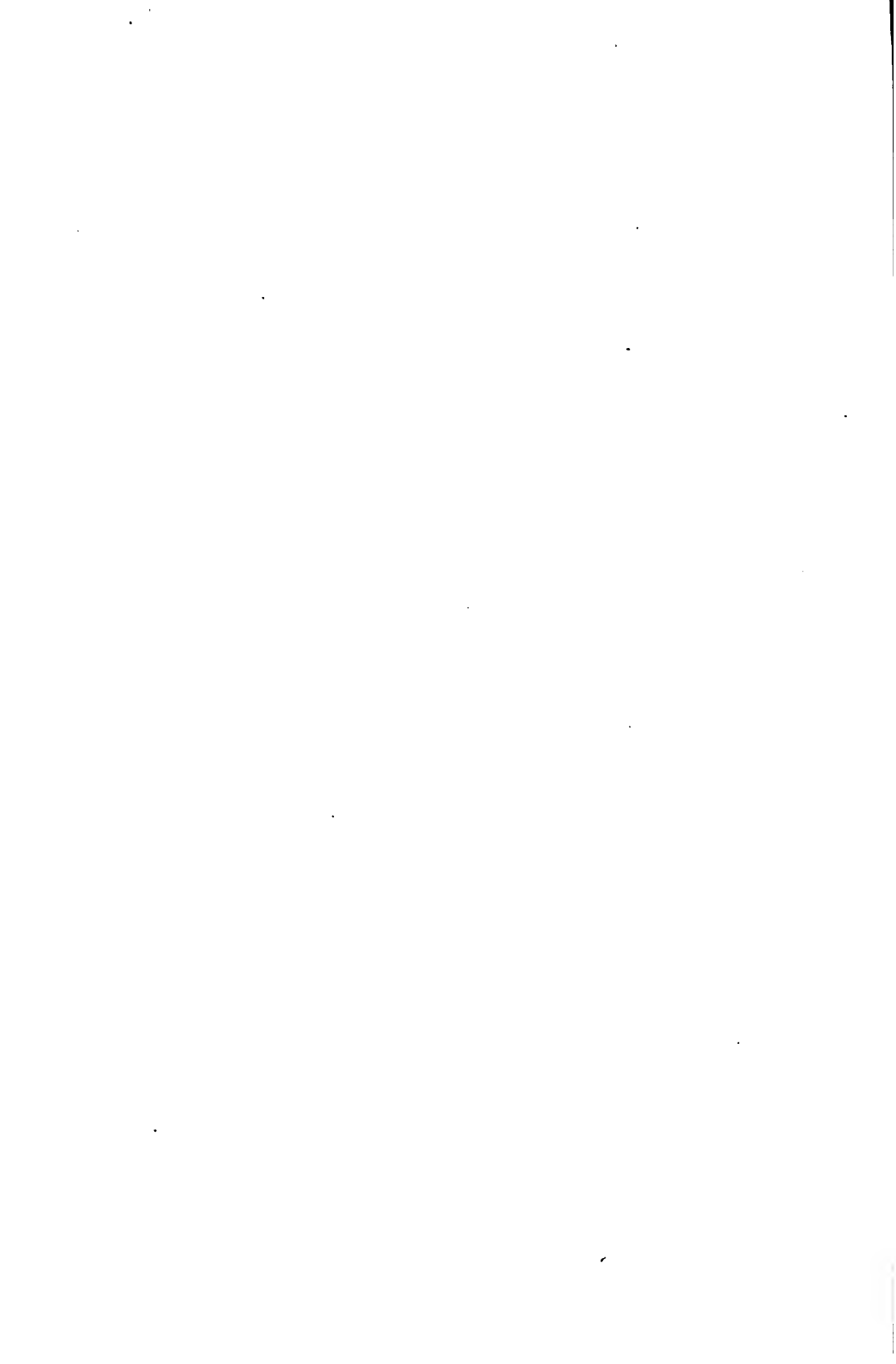
GENTLEMEN:—The Board of Health herewith respectfully submits to you its Sixteenth Annual Report, being for the year 1888.

Respectfully,

W. E. CRAIG,

Secretary.

By order of the Board.



OFFICERS.

B. D. BABCOCK,
Mayor, and President of Board.

G. C. ASHMUN, M. D.,
Health Officer.

W. E. CRAIG,
Secretary.

THOMAS SMITH,
Inspector of Plumbing and Sewers.

JOS. MELLOR, M. D.,
Inspector of Milk.

MEMBERS OF THE BOARD.

	<i>Term Expires.</i>
D. H. BECKWITH, M. D.	1889.
A. J. COOK, M. D.	1889.
FELIX ROSENBERG, ESQ.	1890.
J. PERRIER, M. D.	1890.
H. W. S. WOOD, ESQ.	1891.
B. W. HOLLIDAY, M. D.	1891.

STANDING COMMITTEES FOR 1888-9.

RULES AND REGULATIONS—Holliday, Cook, Rosenberg.

MEN AND DISCIPLINE—Rosenberg, Holliday, Perrier.

FINANCE AND ACCOUNTS—Wood, Rosenberg, Holliday.

PEST HOUSE AND PRISONS—Cook, Wood, Beckwith.

PUBLIC BUILDINGS, HOSPITALS AND SEWERS—Perrier, Beckwith, Wood.

SANITARY AFFAIRS—Beckwith, Perrier, Cook.

SANITARY POLICE.

PATROLMEN.	DISTRICTS.
C. C. RAND,	Acting Sergeant.
H. F. BEAKEL,	Wards 24, 25, 26, 27.
A. G. JONES,	Assisting Sewer Inspector.
J. W. DWYER,	Wards 1, 10, 11.
J. McLAREN,	Assisting Sewer Inspector.
F. SCHNAUFFER,	Wards 2, 3, 4, 5.
T. W. BROWN,	Wards 37, 38.
F. E. NEWCOMB,	Wards 18, 19, 20, 21, 22, 23.
E. W. REDINGER,	Wards 35, 39.
C. A. ROBERTSON,	Wards 32, 36, 40.
A. J. EYNON,	Wards 6, 7, 8, 9.
J. W. POLCAR,	Wards 12, 13, 14, 15, 16, 17.
A. T. ARMSTRONG,	Wards 28, 29, 30.
L. W. WHITMAN,	Wards 31, 33, 34.
W. A. KELLEY,	Assisting Sewer Inspector.

SMALL-POX HOSPITAL.

CHAS. KOHLMAN, Steward.
CATHERINE KOHLMAN, Matron.

DISTRICT PHYSICIANS.

RULE V.—DUTIES OF DISTRICT PHYSICIANS.

SECTION 4.—It shall be the duty of the District Physicians to keep regular office hours, in their respective offices, (which offices shall be in their respective Districts,) for the purpose of treating the poor—from 9 to 10 a. m. and 3 to 4 p. m.

DISTRICT PHYSICIANS.

Dist. No. 1—DR. WM. STEPHENS, Wards 1, 10, 11, 12, 13, 14, 15.

Dist. No. 2—DRS. P. A. COLE and A. K. SMITH, Wards 2, 3, 4.

Dist. No. 3—DR. J. S. CAMPBELL, Wards 5, 6, 7, 8, 9.

Dist. No. 4—DR. R. G. McTAGGART, Wards 28, 29, 30, 34.

Dist. No. 5—DRS. W. T. KIMBERLEY and M. A. BOESGER,
Wards 31, 32, 33, 35, 36.

Dist. No. 6—DR. W. H. WAITE, Wards 37, 38, 39, 40.

Dist. No. 7—DR. E. P. HAWLEY, Wards 24, 25.

Dist. No. 8—DR. G. H. SOMERVILLE, Wards 26, 27.

Dist. No. 9—DR. J. CRAFT, Wards 20, 21.

Dist. No. 10—DR. LOUIS UMBSTAETTER, Wards 16, 17, 22, 23.

Dist. No. 11—DR. WM. DAUS, JR., Wards 18, 19.

Report of the Health Officer.

To the Honorable Board of Health :

GENTLEMEN :—Presenting herewith the tabulated and statistical information of the Secretary concerning the business of this department, together with statements and suggestions of the Inspectors of Sewering and Plumbing, and Milk, I would add some history of the year's labor.

During the Winter months the Sanitary Patrolmen were engaged in making a house to house canvass of the city, to correct any unsanitary conditions they might find, but chiefly to ascertain how many common "wells" were in use, as a source of water supply. This canvass was completed in a very systematic and thorough manner, giving as a result, in the special quest, the fact that there were something over six thousand "wells" still in use in the city. Some of them were shown to be on streets where the city's supply pipes had been placed for months or years, but where people either from the impression that the water from the old "wells" was safe and palatable or to save expense, did not avail themselves of the supply provided by the city. In by far the larger portion of the city where "wells" are used it is because the city water pipes have not been brought within their reach. Some of these districts are in great peril from this condition, for there is little purification of surface water by filtration in such parts of the city. But until the city's supply can be placed within reach there is no relief. In this connection it is relevant to mention the increased supply which will be soon provided the city by

the construction of the new tunnel which has been commenced this year. The nominal supply *per capita* is already large, owing to the large manufacturing plants throughout the city dependent upon the city's pipes for their water. Forty million gallons daily has been furnished during a portion of this year, and when the new tunnel is completed there will be a daily capacity for one hundred million gallons. With such a supply of good water, there ought not to be the risk incurred in using surface water drained into "wells," from soil more or less impregnated with albumenoid waste.

With the appointment of a Inspector of Milk much has been learned in respect to our milk supply. It has been the essential primary step in this branch of work to determine reliable and fair standards of quality. It is well known that a great variation, as to quality, occurs in almost any group of samples, when all are exactly as drawn from the cow. This occurs among animals of different breeds, ages, or stages of lactation, and under the influence of different kinds of food, drink, care, &c. Such possible variations have to be allowed for in testing, or fixing standards of quality for each ingredient of normal milk. For some reason the average quality of milk furnished to consumers in this city is lower than in most cities throughout this country where similar tests have been made and records kept. That the element of dishonesty enters as an explanation of this fact, in part, is beyond doubt. Whether this explanation fully accounts for the fact or not, time and continued inspection will determine. An improvement in quality has been noted since the inspector began his work, and I would invite your attention to some of the recommendations he submits as a result of his observations.

Owing to the fact that a large number of cows are kept in the city, and in many places very close to the homes of people, the board passed a rule limiting the number and distance to be observed in keeping cows within a certain specified portion of the city. The rule also specified certain requirements as to stables, such as tight floors, manure pits, &c. No test of this rule has yet been made, partly from the desire to allow sufficient time for all affected to accommodate themselves to its provisions, and partly from the hesitation of the

police prosecutor to begin action under the rule. There are many poor people who will be inconvenienced, or even prevented from keeping cows by this rule, because they have not sufficient space, and neither the milk produced nor the air breathed in such places is compatible with health. Therefore, and for the comfort and freedom from offense to the neighborhoods where cows have been kept, such a rule was deemed necessary.

In the field of sewerage and plumbing under the oversight of this department, it may be safe to say that the work of inspection, and results in the character of the work done has been better than ever before in this city. This has come from the increased number of inspectors employed, and from a better understanding of the ordinance governing such work. The people of the city are depending more and more upon the inspection afforded by this department, and a considerable portion of the Inspector's time has been occupied in examining "suspected buildings," with a view of determining the condition of plumbing and sewerage. It is a question whether such service should be rendered gratis or not, for it often happens that an opinion expressed by the inspector is made the excuse or basis for property transfers, abrogation of leases, refusal of rent, or other changes, while the question of dangerous safety to health was but a subterfuge. If a fair charge was made for such service, it would assist in preventing attempts to so misuse the department.

The brick main sewers of the city, with their laterals, have all thus far been constructed to provide for "sewage" and "soil drainage." With the latter object in view porous brick have been used, which, if admitting soil water into the sewer, may permit the escape of sewage water into the surrounding soil. Whether this method is wise and safe, is now one of the important questions in relation to future improvements of this character. That there is danger of any general soil pollution from this source throughout the city cannot be regarded probable, but the possibility that certain districts might (in time) be thus rendered unhealthy is worthy of consideration.

The scavenger work has been prosecuted during the year with all the means and force at hand. It includes the removal

of dead animals, the cleaning of vaults and cesspools, the removal of garbage and house-offal. The removal of dead animals by the Newburg Fertilizer Company has been accomplished in a fairly acceptable manner. The contract under which this work is performed is peculiar in that the *city receives compensation* (\$1,000 per year) *for the privilege* of gathering dead animals! The works of the Newburg Fertilizer Company, which for years have been located within about half a mile outside the city's boundaries, thereby causing offense to people living near them, have now been removed to near the "eight mile lock," far enough away, possibly, to relieve the residents of the city from all offense from that source.

The cleaning of vaults and cesspools has been conducted as heretofore, with the improvement of using air tight barrels or casks in place of tank wagons. As this work is done exclusively at night, and as in many places there is no room in yards for wagons, the use of barrels with the care now exercised has resulted in (almost entirely) freeing the city from offense in this branch of scavenger work. The cost to the citizen remains at \$2.25 per cubic yard.

In respect to garbage and house offal there has been no systematic gathering, but a place of reception, and regular removal has been maintained. That there should be a well equipped and organized system employed for the gathering of such material throughout the entire city cannot be doubted. Next to the water supply there is probably no more important sanitary question before the people of this city than the disposal of house offal. It will cost a considerable sum of money to accomplish it, but money cannot be spent to better purpose. The epidemics which prevail from time to time in most cities are usually the result of a disregard of very obvious causes. Among such causes the decomposition of house offal in close proximity to the dwelling places of the people is, perhaps, the most common and most potent. Therefore it is the part of wisdom to meet the evil and overcome it, before its natural results are experienced. A regular, house to house (daily, semi-weekly, or weekly) visitation of a scavenger cart for this purpose, with penalties for failure to deposit

the offal in proper vessels and proper places, is about the only satisfactory method of dealing with this material.

The question of abolishing all ice ponds within the city was brought forward in the Common Council early in the Summer. The ordinance prepared for the purpose, after receiving the endorsement of this board, failed to pass. An attempt has been made to prevent the use of all ponds where sewage is known to enter, and prohibit the use of ice from all others within the city for domestic purposes or in any way from coming into contact with food (or drink) substances. This will involve a constant watch both upon those who sell and deliver ice, and those who use it in (meat and fish) markets or in open vessels inside boxes and coolers. Many samples of ice (from these ponds) which have been melted and tested by me, have left a residue which undergoes rapid decomposition, with evolution of offensive odors. In most instances the sources of such material are easily determined, but in some, no other source than the washings from fields, yards, gardens, streets, &c., could be found. It is enough to show that the water is not purified in shallow ponds by freezing, and that enough albumenoid material from fields, gardens, &c., may find its way into such ponds to afford abundant opportunity for the process and the products of decomposition. Thus both the ice formed from such water and the sediment deposited where these ponds are created, become sources of danger. And although the ice may not be used for or in connection with food or drink, wherever it melts a sediment or residue is left to decompose; and wherever such pond is created the deposit left, when the water is drained off in the Spring, gives off poisonous gases and germs.

Among other topics of interest, the diseases of domestic animals and the condition of the dressed meats brought here from distant points, have been investigated to some extent. One point in connection with the present methods of transporting dressed meats by "refrigerator" cars is, perhaps, worth recording, and may serve to explain some of the losses to consumers of such meats. The degree of refrigeration reached in such cars, or in the cooling rooms of slaughter-

ing establishments, while it retards does not prevent decomposition. Hence the statement commonly made that such meats do not keep well after removal from such cool places. The cooling process as practiced and shipping in cool air prevents a detection of the changes taking place in the meats by the sense of smell, appearance, &c. A thorough washing of the meat fibres with water, alcohol, ether, &c., will often result in obtaining products of decomposition from meats prepared and transported by so-called approved refrigerating methods. Too much dependence upon such methods may become an unsuspected cause of severe, if not fatal illness. Of course, thorough cooking modifies some of the dangers in such matters, but some of the products of decomposition are not rendered harmless by any amount of cooking.

The somewhat rapid growth of the city since the last federal census renders it difficult to determine the exact death rate of the city during the year. There have been four thousand, four hundred and fourteen (4,414) deaths reported, which with an estimated population of two hundred and thirty-five thousand (235,000) would give a death rate per thousand of 18.78+, exclusive of "still born." No epidemic has prevailed, and aside from deaths among young children during the Summer months, the illness of the year or number of deaths would not occasion remarks. The mortality among young children (during hot weather) remains the greatest of drawbacks to city life, and the most persistent problem sanitarians have to meet. It remains unsolved either in the full explanation of its causes, or in the application of measures for its prevention. Had there been as many deaths from yellow fever, diphtheria, small pox, typhoid fever, any of them or combined, as from "cholera infantum," our citizens would have deserted the place. But from familiarity we tolerate and accept as inevitable.

A complete renovation of the Small Pox Hospital has been made. Old bedding has been destroyed, and new purchased; walls have been painted, washed and repaired, with the result of improving the accommodation for this class of cases very greatly. No cases of this disease have occurred during the year.

The tables, carefully prepared by the Secretary, give a plain statement of "births" and "deaths," as well as the cases of contagious diseases reported.

The work of completing the records of deaths and births has been carried forward to near the present time. These records are becoming so important and large that in my opinion it would be wise to place them in a fire-proof safe or vault. They are the only carefully prepared records of the kind in the county, and are consulted daily in the adjustment of property and legal interests. If destroyed, they could not be replaced. I would, therefore, recommend immediate action for the preservation of these records, now that so much labor and care has been expended in their preparation.

In closing, I wish to record my appreciation of the faithful service of all other officers and employes of the Board under my direction, and also of the hearty support and counsel given me by all members of the Board. I have the honor to be,

Very respectfully yours,

G. C. ASHMUN, M. D.,

Health Officer.

Report of the Secretary.

CLEVELAND, O., Jan. 9th, 1889.

Dr. G. C. Ashmun, Health Officer :

SIR :—I respectfully submit to you this, the Sixteenth Annual Report of the Secretary of the Health Department, of the City of Cleveland, being for the year ending December 31st, 1888.

The various matters herein will be found arranged in the following order, to-wit :

- 1st—Finances.
- 2d—Statistics of Birth.
- 3d—Mortuary Statistics.
- 4th—Miscellaneous Statistics.

FINANCES.

The funds of the department were obtained from the following sources :

Balance on hand Jan. 1st, 1888.....	\$ 7,390 60
City Tax Levy.....	28,448 12
Permits to sell Milk.....	1,128 07
Licenses to slaughter Cattle and dress Poultry.....	1,710 00
Dead Animal Contract.....	1,250 00
Lease of Pest House land.....	15 00
Sale of Calves.....	11 00
Total.....	\$39,942 79

DISBURSEMENTS.

For General Expenses.....	\$26,460 11
For maintaining Small Pox Hospital and Farm.....	1,618 71
Balance on hand January 1st, 1889.....	11,863 97
Total.....	\$39,942 79

The following table will show the amounts expended by the Department each year for sixteen years, including 1888 :

1873.....	\$28,416 14
1874.....	25,056 58
1875.....	19,549 38
1876.....	16,168 65
1877.....	14,283 18
1878.....	12,493 71
1879.....	12,036 52
1880.....	12,908 95
1881.....	16,080 99
1882.....	20,329 32
1883.....	22,651 73
1884.....	24,411 07
1885.....	21,354 13
1886.....	27,206 67
1887.....	23,678 67
1888.....	28,078 82

The general expenses for the Department were incurred as follows :

Sanitary Pay Roll, less Salary of Matron and Steward of Pest House.....	\$22,417 65
Removing Swill and Garbage.....	2,080 00
Printing, Stationery, &c.....	777 31
Gas for 1888.....	11 40
Medicines and Drugs.....	372 06
Rent of Telephones.....	117 14
Furniture for Office.....	87 75
Ambulance Hire.....	85 00
Instruments and Tools, Milk Inspector's Outfit.....	151 08
City Directory.....	6 00
Duplicating Machine.....	16 50
Badges and Buttons.....	12 67
Street Car Tickets.....	245 00
Stamps, for use of the Department.....	60 00
Sundries.....	20 55
Total.....	\$26,460 11

The expense of maintaining Small Pox Hospital and Farm may be divided as follows :

Salary of Matron and Steward.....	\$535 00
Groceries and Meat.....	217 93
Rent of Telephone and care of lines.....	70 00
Horse Shoeing, Wagon repairs.....	23 35
Water Drawer, (complete).....	8 18
Feed for Stock.....	46 25
Steward's cash advances, as per vouchers.....	64 96
Harness and Repairs.....	18 00
Hardware.....	4 90
Mason Work, in cellar and foundation.....	87 25
Mattresses, Pillows, &c.....	26 80
Carpenter repair work on House and Barn.....	267 97
Painting inside of House.....	248 13
Total.....	\$1,618 71

BIRTHS.

The subjoined Tabulated Statement of Births, in the City, during the year, is self-explanatory and contains many interesting comparisons, notably the small proportion of native to foreign parents.

MORTUARY STATISTICS.

As will be seen by the tables given, the total number of deaths in the city during the year 1888 were 4,414, being 275 deaths more than the number during the preceding year, and 889 more than during the year 1886.

For information regarding the cause of death, the age, color, sex, nativity and social relation of the person deceased, you are referred to the tables annexed.

TABLE I—Showing Actual Mortality.

TABLE II—Showing Weekly Report of Deaths ; also age, color, sex, nativity and social relation.

TABLE III—Showing Deaths by Months, in each Ward, from the six principal Zymotic diseases, during the year 1888.

TABLE IV—Showing the Classified Causes of Death, reported each week during the year 1888, also deaths by suicide; and mean Barometer, Thermometer and Humidity.

MISCELLANEOUS STATISTICS.

MILK PERMITS.

Persons who sell milk are required, under an ordinance of the City, to purchase a license therefor.

There have been issued, during the year, eleven hundred and twenty-eight of these licenses.

377	to persons selling from wagons.
421	“ “ stores.
268	“ “ houses.
62	“ “ markets.

SLAUGHTERING LICENSES.

During the year one hundred and eleven licenses were issued to parties desiring to slaughter stock, dress poultry or render fats; for each of these licenses a fee of \$10 was charged.

PERMITS TO REMOVE BODIES.

There were issued during the year two hundred and ninety-four permits to remove human bodies from this to other cities, for which no charge is made.

PRIVY VAULTS.

Permits were granted, without charge, for building ten hundred and twenty privy vaults during the year, in accordance with the plans adopted by the Board.

There has been moved about 10,500 cubic yards of night soil from the city, for which a charge of \$2.25 per yard was made.

Following in their respective order, you will find the report of the **District Physicians**, the report of the Sanitary Patrolmen, and the report of the Sewer Inspector.

The Board having contracted for the medicines used by the different District Physicians, a separate account of the amounts used by each has been kept, and the subjoined table, showing the amounts used of the different medicines, as well as their cost, and by whom used, will be of much interest.

Respectfully submitted,

W. E. CRAIG, *Secretary*.

Report of Milk Inspector.

Dr. G. C. Ashmun, Health Officer :

SIR :—I have the honor to submit my first annual report of work performed by me as Inspector of Milk, in the service of the Board of Health of the City of Cleveland, from January 16th to December 31st, 1888.

SAMPLES OF MILK COLLECTED.

From Producers	543
From Peddlers	994
From Stores	1,009
Total	2,546

PROSECUTIONS.

Notices were sent to 474 persons for selling milk contrary to the laws of the State of Ohio, and the following cases have been prosecuted for selling adulterated, skimmed, watered, and sophisticated milk, as pure milk :

T. J. Sedgebeer, milk peddler, Warrensville, arrested Jan. 31 for selling milk containing 40 per cent. added water. Tried in police court, convicted, and fined \$50 and costs. This case has been appealed to the Court of Common Pleas, and is still pending.

Thomas C. Skinner, milk peddler, Warrensville, arrested May 1 for selling milk containing 40 per cent. added water. Pleaded guilty and was fined \$50 and costs.

Frank Stepec, farmer, Newburg, arrested May 6 for selling milk containing 50 per cent. added water. Tried before Justice Braund of Newburg, convicted and fined \$50 and costs.

M. Weber, grocer, 201 Scovill Avenue, arrested May 31 for selling skimmed and watered milk. Tried in police court, convicted, and fined \$50 and costs.

C. Brevés, confectioner, 38 Scovill Avenue, arrested May 31 for selling skimmed milk; case dismissed by police prosecutor on payment of costs.

C. T. Miller, milk peddler, Warrensville, arrested May 26 for selling sophisticated milk. Tried in police court and acquitted.

C. Wenz, baker, 343 Lorain Street, arrested July 31 for selling skimmed milk; case dismissed by police prosecutor on payment of costs.

A. Brimicombe, grocer, 26 Garden Street, arrested October 13 for selling skimmed milk; case dismissed by police prosecutor on payment of costs.

COLLECTION OF SAMPLES OF MILK.

Samples of milk are taken from the cans as they are unloaded from the cars at the various railroads entering the city, from peddlers' wagons, and from stores where milk is offered for sale; and the samples of milk collected are taken to the laboratory and examined by the Inspector.

METHOD OF PRELIMINARY EXAMINATION.

SPECIFIC GRAVITY.—The specific gravity is determined by the lactometer, which gives results in degrees; correction being made for the temperature and the specific gravity of the milk taken at 60° Fahrenheit.

APPROXIMATE PERCENTAGE OF FAT.—This is determined by Feser's lactoscope. The instrument consists of a small glass cylinder, graduated by lines showing the percentage of fat; enclosed within the cylinder, near the bottom, is a still smaller cylinder of white glass, on which are ruled several black lines. Four cubic centimeters of milk

are placed in the cylinder by means of a pipette, and successive portions of water are added until (after thorough mixing with each addition) the opacity of the milk is reduced to a point where the black lines on the small white cylinder can be seen without being too distinctly visible. The level of the mixture of water and milk gives the percentage of fat.

All samples of milk that do not contain 11 per cent. total solids and 2.75 per cent. fat are chemically analyzed.

COMPOSITION OF MILK.—Milk consists of an emulsion of water, fat, milk-sugar, casein, albumen and mineral matter, (soluble and insoluble salts). These constituents do not occur in fixed proportions but vary within certain limits. It is the province of milk analysis to find the amount of these variations and to show the relation between the water and the solids present, as well as the relative proportion of sugar, fat, albuminoids and mineral matter, constituting the solids. A determination of these constituents is termed a complete analysis of milk, but is not necessary in arriving at the food value of milk, or to detect adulteration, finding of the specific gravity, total solids and the fat, as a rule, sufficing for that purpose.

METHOD OF ANALYSIS.

SPECIFIC GRAVITY is accurately found by the use of the pycnometer or weighing bottle, the milk being computed at a temperature of 60° Fahrenheit. The specific gravity of normal milk varies between 1.0290 and 1.0330, anything below this indicating watering, and anything above, skimming or the addition of foreign solids. This estimate is based upon dairy milk as a standard.

TOTAL MILK SOLIDS.—To ascertain the percentage of Total Milk Solids, five grammes of milk are weighed in a platinum dish of known weight, and the dish and contents are placed on a boiling water-bath for three hours, or until the dish with contents cease to lose weight. The dish is thoroughly dried and the whole weighed, the result being the weight of dish and solids. The original weight of dish is subtracted, giving the weight of total milk solids in 5 grammes

of milk. The percentage (or grammes of milk solids in 100 grammes of milk) is ascertained by multiplying by 20.

WATER.—The percentage of water is found in the loss sustained by the 5 grammes of milk during evaporation, multiplied by 20.

TO FIND MILK SOLIDS NOT FAT.—The dish containing the total milk solids is filled with benzine, and heated on the water-bath to the boiling point, when the fat is rapidly dissolved. The benzine is then poured off from the milk solids in the dish and this process is repeated three times. The contents of the platinum dish are thoroughly washed with benzine and after the dish is carefully dried, are weighed. The weight of dish and contents, less the original weight of dish, gives the weight of solids not fat; the fat being dissolved by the benzine and removed. The net result multiplied by 20 gives the percentage of milk solids not fat.

FAT.—The difference between milk solids not fat and total milk solids, gives the percentage of fat.

ASH.—The platinum dish and contents (solids not fat) are heated to a dull red heat until the organic portion of the milk is consumed, and the residue is quite white. Its weight is that of the ash contained in 5 grammes of milk, which, multiplied by 20, gives the percentage.

A complete record is kept of samples collected and examined, and a report is filed daily at the Health Office. A printed notice is sent to all dealers whose milk is of poorer quality than that required by the laws of the State of Ohio.

I would respectfully suggest that action be taken to have the standard of milk fixed by the Legislature, showing what is meant by pure milk and that some system be adopted for the control of the sale of skimmed milk. Accurate inspection is at present prevented by peddlers offering for sale skimmed milk from cans bearing no mark to designate the same, so that dishonest peddlers may sell skimmed milk to private customers with small chance of detection.

Peddlers and dealers taking out permits for the sale of milk should be compelled to designate the parties from whom they obtain their milk, the quantity received, at what time of day received, and

whether whole or skimmed milk; and to report any change to the office of the Board, for record. In this way the inspection of milk would be greatly facilitated, and the responsibility for adulterating a given quantity of milk could be absolutely fixed, by following up the sales until the milk reaches the consumer.

The sale of imperfectly cooled or cured milk should be prohibited, and authority on the part of the officers of the Board to seize and destroy adulterated milk, would doubtless improve the quality of the article. All milk dealers should be compelled to thoroughly cleanse their milk cans as soon as empty.

About 90 per cent. of the milk supply of Cleveland is obtained from the country districts adjacent to the city. The milk shipped by railway is generally of good quality, while that brought direct from the country by peddlers is of an inferior grade.

Special attention is directed to the appended tabulated statements of the examination and inspection of milk, showing the difference in quality as between producers, peddlers, and storekeepers, in all the component parts of milk and proving its deterioration *in transitu*.

For the use of persons desirous of testing for themselves the quality of milk by means of the lactometer, I add a compilation of comparative values, the lactometer degrees being translated into the corresponding specific gravity.

Respectfully submitted,

JOSEPH MELLOR, M. D.,

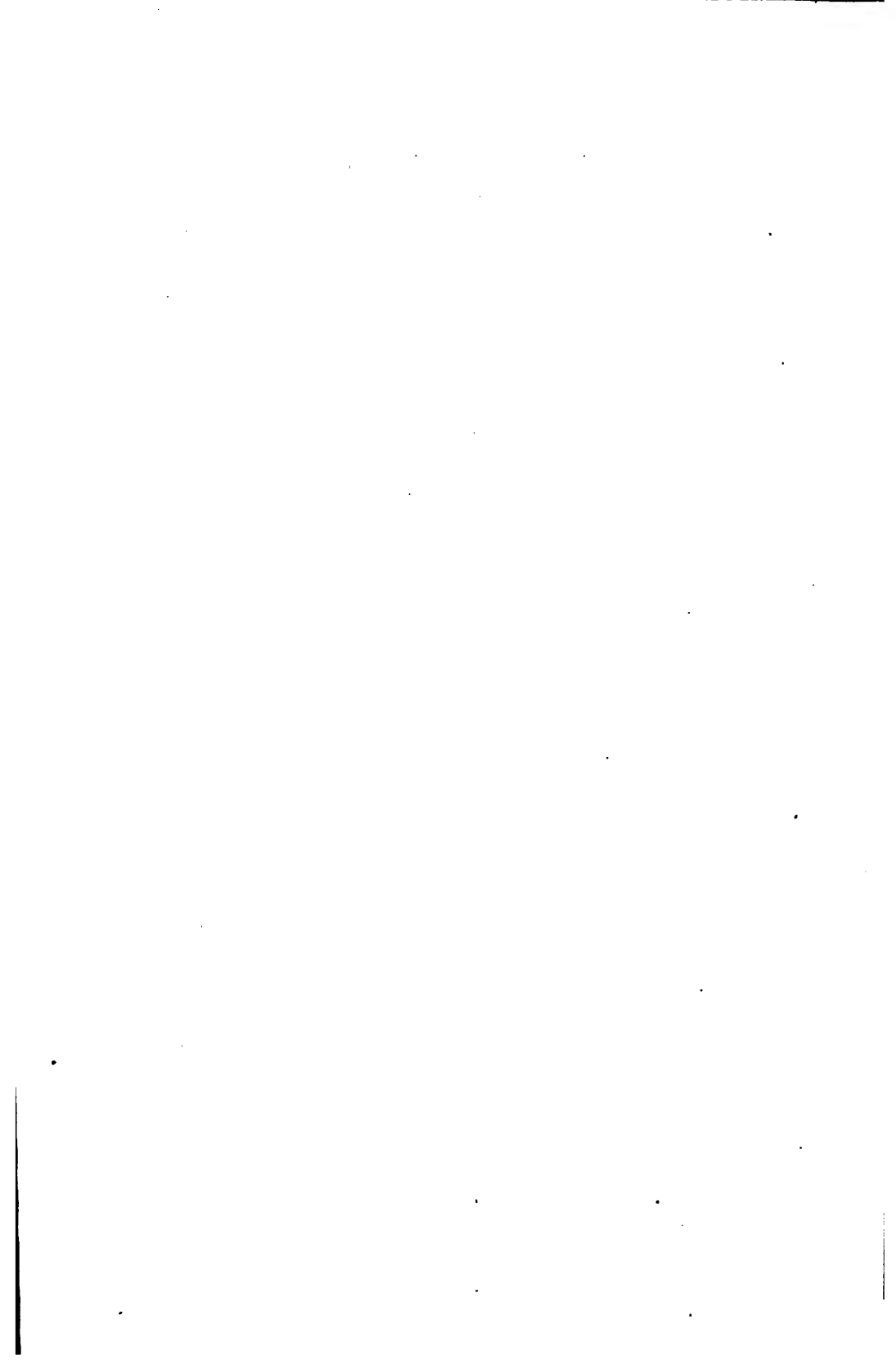
Inspector of Milk.

MONTHLY AVERAGE OF MILK INSPECTION.
PRODUCERS.

	Specific Gravity.	Solids.	Fat.	Solids not Fat.	Water.
January.....	1.0285	11.27	2.90	8.37	88.73
February.....	1.0322	13.37	3.78	9.59	86.63
March.....	1.0369	13.41	2.82	10.317	86.59
April.....	1.0325	12.11	2.72	9.39	87.89
May.....	1.0295	11.41	2.80	8.61	88.59
June.....	1.0306	12.081	3.054	9.027	87.919
July.....	1.0311	12.15	3.05	9.10	87.85
August.....	1.0305	11.982	3.047	8.945	88.008
September.....	1.0314	12.003	2.873	9.13	87.997
October.....	1.0311	12.41	3.25	9.16	87.59
November.....	1.0310	12.13	3.05	9.08	87.87
December.....	1.0324	12.55	3.09	9.46	87.45
Annual.....	1.0314	12.21	3.036	9.18	87.79

MONTHLY AVERAGE OF MILK INSPECTION.—CONTINUED.
GENERAL AVERAGE.

	Specific Gravity.	Solids.	Fat.	Solids not Fat.	Water.
January	1.0301	11.40	2.67	8.73	88.60
February	1.0326	12.38	2.68	9.70	87.62
March	1.0332	12.28	2.78	9.50	87.72
April	1.0339	12.44	2.74	9.70	87.56
May	1.0313	11.88	2.79	9.09	88.12
June	1.0312	12.04	2.94	9.10	87.96
July	1.0319	12.09	2.83	9.26	87.91
August	1.0306	11.45	2.83	8.62	88.55
September.....	1.0311	11.82	2.79	9.03	88.18
October.....	1.0324	12.26	2.86	9.46	87.74
November	1.03181	12.07	2.94	9.13	87.93
December.....	1.0320	11.81	2.79	9.02	88.19
Annual.....	1.03179	12.02	2.80	9.22	87.88





COMPARISON OF LACTOMETER WITH SPECIFIC GRAVITY.

Lactometer.	Gravity.	Lactometer.	Gravity.	Lactometer.	Gravity.
50	1.01450	76	1.02204	102	1.02858
51	1.01479	77	1.02233	103	1.02887
52	1.01508	78	1.02262	104	1.03016
53	1.01537	79	1.02291	105	1.03045
54	1.01566	80	1.02320	106	1.03074
55	1.01596	81	1.02349	107	1.03103
56	1.01624	82	1.02378	108	1.03132
57	1.01653	83	1.02407	109	1.03161
58	1.01682	84	1.02436	110	1.03190
59	1.01711	85	1.02465	111	1.03219
60	1.01740	86	1.02494	112	1.03248
61	1.01769	87	1.02523	113	1.03277
62	1.01798	88	1.02552	114	1.03306
63	1.01827	89	1.02581	115	1.03335
64	1.02856	90	1.02619	116	1.03364
65	1.01885	91	1.02639	117	1.03393
66	1.01914	92	1.02668	118	1.03422
67	1.01943	93	1.02697	119	1.03451
68	1.01972	94	1.02726	120	1.03480
69	1.02001	95	1.02755	121	1.03509
70	1.02030	96	1.02784	122	1.03538
71	1.02059	97	1.02813	123	1.03567
72	1.02088	98	1.02842	124	1.03596
73	1.02117	99	1.02871	125	1.03625
74	1.02146	100	1.02900	126	1.03654
75	1.02175	101	1.02929	127	1.03683

Report of the Sewer Inspector.

Dr. G. C. Ashmun, Health Officer:

SIR:—As Inspector of Plumbing and Sewers I have the honor to present my annual report for the year ending December 31st, 1888.

Sanitary plumbing has made great progress within the last few years and the public in general are demanding protection from the evils of bad plumbing. With proper care of plumbing fixtures and with present methods of doing plumbing work, very little danger from sewer gases need be apprehended.

My experience as Inspector of Plumbing and Sewers has taught me that, in nearly all cases where persons erect houses which they intend to occupy themselves, they are anxious to have the plumbing done in as good sanitary manner as possible. On the other hand I find a great many landlords, who are owners of tenement buildings, who profess not to believe in our rules and regulations. This class of people give their work to the lowest bidder, and he, knowing that he has not a fair price for his work, will try to do his work as cheaply as possible. This class of plumbers have to be constantly watched to prevent them from doing unsanitary work.

During the past year we have issued 844 permits for plumbing in new houses, 901 permits for plumbing in old houses, and 131 permits for overhauling and repairing old plumbing; 1,292 permits for new sewers, 785 permits for repairing sewers, and 288 permits for extending sewers, making a total of 4,241 permits issued for all purposes.

We have made 125 inspections of plumbing work in old houses, and the defects found in them consisted of broken sewer pipes, open sewer joints, defective traps, imperfectly jointed soil and waste pipes, absence of proper ventilation stacks; showing the careless and unworkman-like manner in which work was done before our present rules and regulations were practically enforced. In all cases the defective work was ordered remedied, and, in some buildings, the entire system was changed and the plumbing put in good sanitary condition.

After two years' experience with our present rules and regulations, I am of the opinion that certain alterations and additions should be made in them, which would make a certain class of plumbers do better work. I would suggest the enactment of a law compelling plumbers to test all soil, waste, or vent pipes within buildings with water or some other competent test. My reasons for advocating this measure is that, in a great many instances it is almost impossible to discover all the defects in the joints or waste pipes from surface inspection, for very often the soil and waste pipes are located in such places that they cannot be thoroughly examined.

I also desire to call your attention to the practice of laying sewers beneath buildings occupied by human beings. I would suggest an amendment to the rules of the Board so as to prohibit the use of brick, stone, or earthen ware beneath all buildings, for the purpose of carrying off soil or waste water. House connections constructed of such material are, in my opinion, unsafe and dangerous to life and health. They are not impermeable to sewer gases. In this assertion I am supported by the most eminent sanitary engineers—such men as Warong, Heyler, and other noted sanitarians.

Frequent complaints having been made at this office in regard to the unsanitary condition of some of the Public School buildings, I made an examination of a number of them and I found the plumbing in most of them in a wretched condition,—notably the Central High School. I found the condition of the plumbing and drainage in this building such as to cause the Health Officer to take energetic measures to put the building in good sanitary condition. Through his

efforts the entire plumbing arrangements were overhauled and remodeled and the plumbing put in first-class condition.

I found it necessary during the past year to serve 153 written notices upon plumbers and sewer builders, notifying them that their work was done in an unsatisfactory manner.

My assistants have rendered me valuable aid in the discharge of my duties, and have performed the work assigned them in a creditable manner.

Respectfully submitted,

THOMAS SMITH,

Inspector of Plumbing and Sewers.

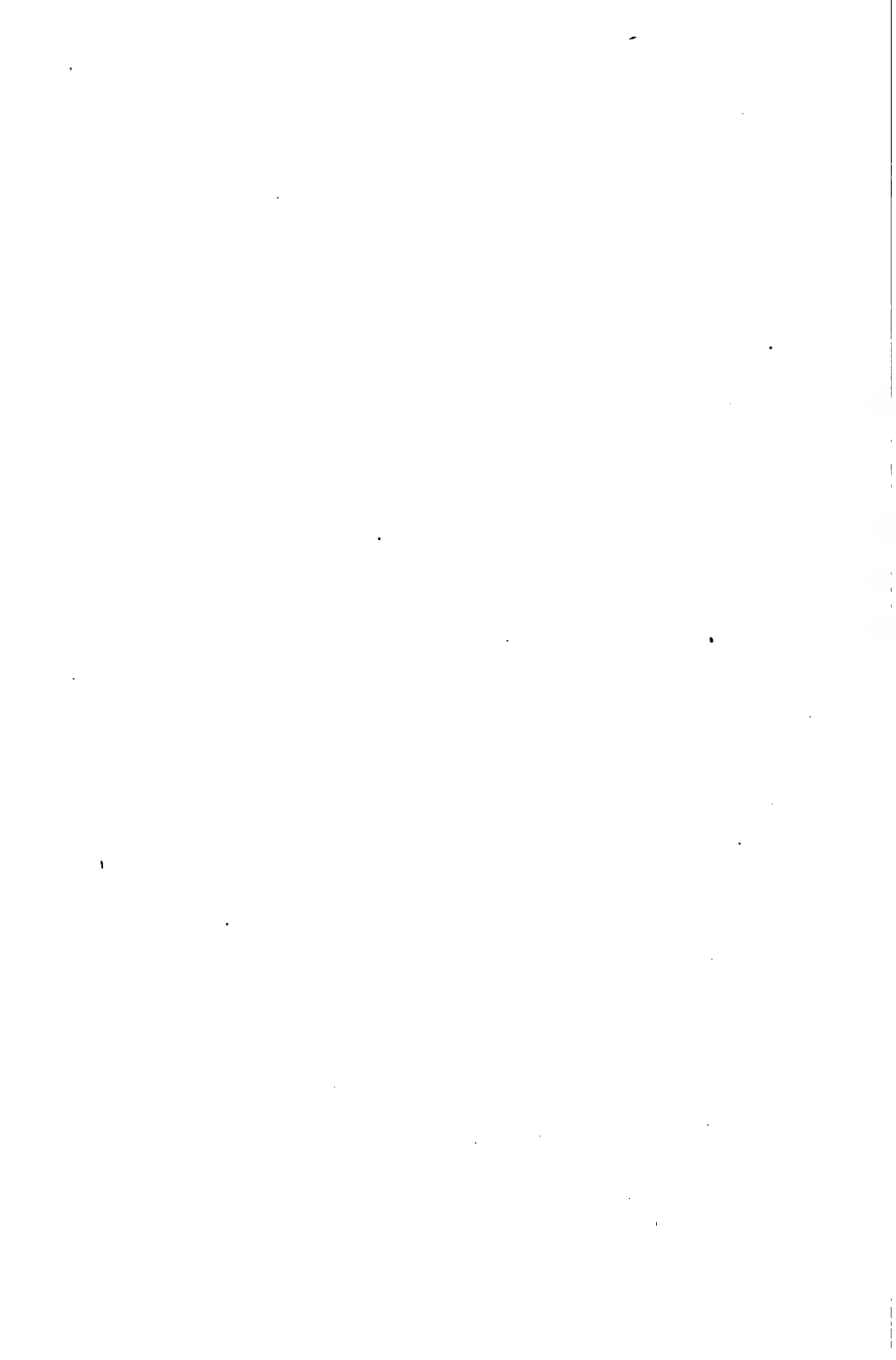
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8. Actual Mortality.
9. Table showing weekly report of Deaths during 1888, also giving age, color, sex, social relation and nativity of Decedents for 12 months.
10. Deaths from Zymotic Diseases, by Wards, year ending Dec. 31, 1888.
11. Nativity of Decedents.
12. Table showing the classified Causes of Death.
13. Meteorological Summary for the year ending Dec. 31, 1888.

MONTHLY AVERAGE OF MILK INSPECTION.—CONTINUED.

GENERAL AVERAGE.

	Specific Gravity.	Solids.	Fat.	Solids not Fat.	Water.
January	1.0301	11.40	2.67	8.73	88.60
February	1.0326	12.38	2.68	9.70	87.62
March	1.0332	12.28	2.78	9.50	87.72
April	1.0339	12.44	2.74	9.70	87.56
May	1.0313	11.88	2.79	9.09	88.12
June	1.0312	12.04	2.94	9.10	87.96
July	1.0319	12.09	2.83	9.26	87.91
August	1.0305	11.45	2.83	8.62	88.55
September.....	1.0311	11.82	2.79	9.03	88.18
October.....	1.0324	12.26	2.86	9.46	87.74
November	1.03131	12.07	2.94	9.13	87.93
December.....	1.0320	11.81	2.79	9.02	88.19
Annual.....	1.03179	12.02	2.80	9.22	87.88



COMPARISON OF LACTOMETER WITH SPECIFIC GRAVITY.

Lactometer.	Gravity.	Lactometer.	Gravity.	Lactometer.	Gravity.
50	1.01450	76	1.02204	102	1.02958
51	1.01479	77	1.02233	103	1.02987
52	1.01508	78	1.02262	104	1.03016
53	1.01537	79	1.02291	105	1.03045
54	1.01566	80	1.02320	106	1.03074
55	1.01595	81	1.02349	107	1.03103
56	1.01624	82	1.02378	108	1.03132
57	1.01653	83	1.02407	109	1.03161
58	1.01682	84	1.02436	110	1.03190
59	1.01711	85	1.02465	111	1.03219
60	1.01740	86	1.02494	112	1.03248
61	1.01769	87	1.02523	113	1.03277
62	1.01798	88	1.02552	114	1.03306
63	1.01827	89	1.02581	115	1.03335
64	1.02856	90	1.02619	116	1.03364
65	1.01885	91	1.02639	117	1.03393
66	1.01914	92	1.02668	118	1.03422
67	1.01943	93	1.02697	119	1.03451
68	1.01972	94	1.02726	120	1.03480
69	1.02001	95	1.02755	121	1.03509
70	1.02030	96	1.02784	122	1.03538
71	1.02059	97	1.02813	123	1.03567
72	1.02088	98	1.02842	124	1.03596
73	1.02117	99	1.02871	125	1.03625
74	1.02146	100	1.02900	126	1.03654
75	1.02175	101	1.02929	127	1.03683

Report of the Sewer Inspector.

Dr. G. C. Ashmun, Health Officer:

SIR:—As Inspector of Plumbing and Sewers I have the honor to present my annual report for the year ending December 31st, 1888.

Sanitary plumbing has made great progress within the last few years and the public in general are demanding protection from the evils of bad plumbing. With proper care of plumbing fixtures and with present methods of doing plumbing work, very little danger from sewer gases need be apprehended.

My experience as Inspector of Plumbing and Sewers has taught me that, in nearly all cases where persons erect houses which they intend to occupy themselves, they are anxious to have the plumbing done in as good sanitary manner as possible. On the other hand I find a great many landlords, who are owners of tenement buildings, who profess not to believe in our rules and regulations. This class of people give their work to the lowest bidder, and he, knowing that he has not a fair price for his work, will try to do his work as cheaply as possible. This class of plumbers have to be constantly watched to prevent them from doing unsanitary work.

During the past year we have issued 844 permits for plumbing in new houses, 901 permits for plumbing in old houses, and 131 permits for overhauling and repairing old plumbing; 1,292 permits for new sewers, 785 permits for repairing sewers, and 288 permits for extending sewers, making a total of 4,241 permits issued for all purposes.

We have made 125 inspections of plumbing work in old houses, and the defects found in them consisted of broken sewer pipes, open sewer joints, defective traps, imperfectly jointed soil and waste pipes, absence of proper ventilation stacks; showing the careless and unworkman-like manner in which work was done before our present rules and regulations were practically enforced. In all cases the defective work was ordered remedied, and, in some buildings, the entire system was changed and the plumbing put in good sanitary condition.

After two years' experience with our present rules and regulations, I am of the opinion that certain alterations and additions should be made in them, which would make a certain class of plumbers do better work. I would suggest the enactment of a law compelling plumbers to test all soil, waste, or vent pipes within buildings with water or some other competent test. My reasons for advocating this measure is that, in a great many instances it is almost impossible to discover all the defects in the joints or waste pipes from surface inspection, for very often the soil and waste pipes are located in such places that they cannot be thoroughly examined.

I also desire to call your attention to the practice of laying sewers beneath buildings occupied by human beings. I would suggest an amendment to the rules of the Board so as to prohibit the use of brick, stone, or earthen ware beneath all buildings, for the purpose of carrying off soil or waste water. House connections constructed of such material are, in my opinion, unsafe and dangerous to life and health. They are not impermeable to sewer gases. In this assertion I am supported by the most eminent sanitary engineers—such men as Warong, Heyler, and other noted sanitarians.

Frequent complaints having been made at this office in regard to the unsanitary condition of some of the Public School buildings, I made an examination of a number of them and I found the plumbing in most of them in a wretched condition,—notably the Central High School. I found the condition of the plumbing and drainage in this building such as to cause the Health Officer to take energetic measures to put the building in good sanitary condition. Through his

efforts the entire plumbing arrangements were overhauled and remodeled and the plumbing put in first-class condition.

I found it necessary during the past year to serve 153 written notices upon plumbers and sewer builders, notifying them that their work was done in an unsatisfactory manner.

My assistants have rendered me valuable aid in the discharge of my duties, and have performed the work assigned them in a creditable manner.

Respectfully submitted,

THOMAS SMITH,

Inspector of Plumbing and Sewers.

INDEX OF STATISTICAL REPORTS.

1. Report of District Physicians for 1888.
2. Table showing the substances furnished to District Physicians, and the amount expended for each substance in each District from Jan. 1 to Dec. 31, 1888.
3. Nuisances abated, by Sanitary Districts.
4. Cases of Contagious Diseases reported during 1888.
5. Births and Deaths by months.
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10. Deaths from Zymotic Diseases, by Wards, year ending Dec. 31, 1888.
11. Nativity of Decedents.
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REPORT OF DISTRICT PHYSICIANS FOR 1888.

DISTRICT NO.	DISTRICT PHYSICIANS.	Cost of Medicines, for 1887.	Cost of Medicines, for 1888.	Prescriptions.	Visits.	No. of Patients.	NATIVITY.					Other Foreigners.
							U. S. and Canada.	Germany.	Ireland.	England.	Bohemia.	
District No. 1.....	Dr. Wm. Stephens.....	\$ 18 51	\$ 57 46	1372	2,132	667	414	34	60	40	.....	119
District No. 2.....	Drs. P. A. Cole and A. K. Smith.....	40 41	44 46	656	764	513	311	44	103	24	.....	31
District No. 3.....	Dr. J. S. Campbell.....	26 47	24 96	629	755	155	29	29	87	5	.....	5
District No. 4.....	Dr. R. G. McTaggart.....	56 41	47 48	763	817	570	203	28	285	20	1	23
District No. 5.....	Drs. W. T. Kimberley and M. A. Boeger	32 94	45 28	916	989	280	140	63	40	28	3	6
District No. 6.....	Dr. Waite.....	17 13	8 32	379	223	189	49	67	28	9	6	.....
District No. 7.....	Dr. E. P. Hawley.....	23 36	12 55	542	420	130	19	35	16	3	41	16
District No. 8.....	Dr. G. H. Somerville.....	13 73	19 34	382	464	275	30	21	124	12	4	83
District No. 9.....	Dr. J. Craft.....	18 42	23 90	828	745	133	106	.....	3	8	7	9
District No. 10.....	Dr. L. Umstaetter.....	22 17	25 86	667	875	242	75	60	35	4	15	53
District No. 11.....	Dr. Wm. Daus, Jr.....	.....	11 61	61	85	40	12	13	11	1	.....	1
Totals.....		\$269 55	\$325 42	7,205	8,259	3,164	1,388	386	802	154	77	346

H 20

Districts Available.

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CH SUBSTANCE IN EACH DISTRICT FROM JANUARY 1ST,

Tincture Aconite.	Tinct. Belladonna.	Tinct. Nux Vom.	Hydrag. C. Cret.	Bottles and Corks.	Homeop. Remedies.	Glycerine.	Iodoform.	Whiskey.	Chloral.	Potass. Bromid.	Oakum.	Ab. Cotton.	Potass. Acetate.	Cost of Medicines for 1888.
\$ 10	\$ 4 20	\$ 1 40	\$ 03	\$ 3 70		\$ 27	\$1 44	\$2 24	\$ 90	\$ 56		\$ 69	\$ 24	\$ 57 46
40	10	20	10	3 09	13 10	81	48	29	30	28	16	53	40	44 46
40	1 00	60		2 69			48	27		24		14		24 96
80	2 40	5 00		9 20			1 44							47 48
	1 20	1 60		2 92	22 20	89	72	81	24	56	04	07	40	45 28
		80		98										8 32
		20		1 95		18							16	12 55
	30	10		1 01						16				19 34
60	20			4 58		1 05		77	12	04				23 90
	80	40		2 42			24	27						25 86
20	20	20		97		27	48	29	24	32			16	11 61
\$2 50	\$10 40	\$10 50	\$ 13	\$33 51	\$35 50	\$3 47	\$5 28	\$4 94	\$1 80	\$2 16	\$ 20	\$1 43	\$1 36	\$325 42

Dead Animals.	Slaughter Houses.		Soup Factories.	Slaughter Licenses.		Milk Licenses.	Milk Tests.	Cattle Yards.	Notice to Drain Pond.	Sewers.	Sewers Stopped.	School Buildings Examined.	Contagious Diseases.	Birth Reports (gathered.	Miscellaneous.	Arrests.
5	3	.....		13	31	3	.....	21	3	18	23	197	1240	265	2	
157	50	50		11	75	.....	50	.....	13	105	.....	98	364	450	4	
76	.....	1		19	85	.....	.....	.....	44	180	3	48	524	683	.....	
35	3	1		11	33	.....	2	.....	45	15	3	95	463	138	1	
40	1	.....		5	125	.....	.....	34	10	38	.....	134	823	416	.....	
37	8	.....		8	40	.....	2	3	13	7	4	45	655	290	1	
11	1	.....		6	43	.....	1	1	50	30	8	32	815	30	.....	
35	5	1		11	63	.....	3	14	14	18	7	76	441	57	1	
67	2	.....		8	37	3	2	2	53	63	5	108	627	419	12	
82	.....	.....		12	39	.....	.....	.....	16	47	8	41	843	813	1	
31	1	1		9	89	8	.....	.....	20	65	9	60	436	385	5	
516	74	54		113	660	14	60	75	281	586	70	943	6,731	3,936	27	

DEATHS REPORTED IN PUBLIC INSTITUTIONS. DECEMBER

Year Ending December 31st, 1888.	Male.	Female.	Total
Cleveland City Hospital.....	15	6	21
Charity Hospital.....	11	12	23
Infirmary Hospital.....	42	26	68
Home of Maternity.....	36	34	70
Homeopathic Hospital.....	5	9	14
Cleveland Hospital for Insane.....	20	22	42
Home of Good Shepherd.....			
Home of Aged Poor.....	9	7	16
Home for Old Ladies.....		3	3
Trinity Church Home.....		1	1
St. Alexis' Hospital.....	14	9	23
University Hospital.....	1		1
St. Mary's Asylum.....			
St. Joseph's Asylum.....		1	1
Monroe Street Orphan Asylum.....	3		3
Little Sisters of the Poor.....			
Jewish Orphan Asylum.....			
Cleveland Protestant Orphan Asylum.....			
Total.....	156	130	286

DECEMBER 31, 1888.

			STILLBIRTHS		BIRTHS DURING ELEVEN YEARS BY MONTHS.										
40 to 50 years.	50 years and over.	Not Stated.	Stillbirths, 1887.	Stillbirths, 1888.	Births in 1887.	Births in 1886.	Births in 1885.	Births in 1884.	Births in 1883.	Births in 1882.	Births in 1881.	Births in 1880.	Births in 1879.	Births in 1878.	Births in 1877.
26	7	24	17	21	582	574	561	537	540	442	447	446	441	429	501
96	13	22	24	35	553	532	544	596	518	430	452	417	390	392	426
90	8	24	25	33	580	560	491	619	511	475	416	462	420	402	455
77	14	16	38	27	506	530	487	491	434	395	413	379	320	390	373
88	4	16	25	22	548	524	506	516	542	506	403	374	352	389	355
68	3	25	24	30	514	516	496	528	485	335	385	397	402	390	371
71	3	14	35	32	585	543	465	597	488	434	454	477	414	371	465
87	5	17	23	34	602	598	547	580	502	512	448	478	426	476	470
84	7	12	24	30	568	556	547	550	565	465	448	473	416	474	436
74	11	12	34	29	541	520	500	547	553	546	417	423	400	467	432
88	9	21	28	29	522	509	475	488	501	470	451	378	434	378	423
80	11	9	33	51	610	555	506	561	537	562	418	442	422	374	382
983	95	211	330	376	6,711	6,547	6,325	6,510	6,177	5,512	5,152	5,113	4,838	4,934	5,090



	8	1				1	1	4			1	1	8	5	3	3	1	4
Epilepsy.....	4	9	4										4		2	2		
Tetanus.....	344	820	286	45	341	1	1	3		1			346	2	186	152	4	344
Convulsions.....		9																
Stroke.....	86	60	4	4	4	2	3	9	12	14	16	21	5	84	2	47	38	40
Other Diseases of Brain and Cord.....	167	176	5	1	6	3	10	15	20	17	27	39	30	157	10	99	68	93
Diseases of Heart.....		3																
Aneurism.....	99	65	5		5	2	4	4	9	18	18	23	16	93	6	48	51	56
Dropsy.....	9	9					2		2	2		2	1	9	5	4	5	2
Diabetes	48	49	3	1	4	2		7	6	8	4	10	7	46	2	31	17	27
Bright's Disease and Nephritis.....	120	124	16	11	27	1	11	25	17	6	15	13	5	117	3	49	71	63
Peltonitis, Gastritis and Perforation.....	13	5	3		3	1		2	2	2		2	1	13	5	8	6	1
Hernia and Obstruction of Intestine.....	52	33	2		2	1	1	3	11	12	11	8	3	50	2	36	16	35
Disease of Liver.....	32	20		1	1			4		6	2	9	10	32	17	15	21	5
Genito-Urinary Diseases.....	1	3											1	1	1			1
Diseases of Bones and Cartilages.....																		
IV. Puerperal Diseases.....	48	40					5	23	17	3				48	42			6
Infantile Debility.....	179	157	176	3	179									179	102	77		179
Dentition	16	20	10	6	16									15	1	10	6	16
Senectus.....	251	228									2	39	210	246	5	110	141	160
V. Accidental.....	149	146	12	16	28	10	23	26	23	11	15	8	5	147	2	124	25	86
Homicide	6	13		1	1			2	2	1				6	5	1	4	2
Suicide	28	24						10	8	2	4	4		28		22	6	17
Surgical Operation.....	8	8						3		3	1	1		8		8	8	8
Unknown.....	1	1							1					1	1			1

TABLE SHOWING COLOR, SEX, SOCIAL RELATION

WEEKS ENDING.			Deaths Reported in 1888.	Deaths exclusive of those in Public Institutions.	NATIVITY OF DECEDENTS.							
					Cleveland.	Other parts of the U. S.	Germany.	Ireland.	Canada.	England.	Bohemia.	Other Foreigners.	Unknown.
January	7.....	49	47	31	8	2	4	2	1	1	.....	.....
	14.....	70	67	33	9	9	6	2	5	4	2	.....
	21.....	92	82	39	18	11	7	2	3	5	7	.....
	28.....	91	87	50	13	15	6	.....	2	1	4	.....
February	4.....	99	92	51	16	13	9	.....	3	4	3	.....
	11.....	81	74	38	15	13	6	1	4	2	2	.....
	18.....	63	56	25	14	8	8	1	2	2	3	.....
	25.....	76	67	34	20	12	6	.....	.....	1	3	.....
March	3.....	107	97	45	21	17	10	.....	3	4	7	.....
	10.....	82	74	43	14	12	5	.....	5	2	1	.....
	17.....	86	82	35	26	11	7	1	4	.....	2	.....
	24.....	79	75	46	8	5	10	2	5	1	1	1
April	31.....	76	71	37	14	5	9	1	4	1	5	.....
	7.....	95	90	54	19	11	3	.....	2	4	2	.....
	14.....	87	80	44	16	7	9	1	3	4	3	.....
	21.....	72	65	39	11	7	5	1	3	.....	6	.....
May	28.....	106	102	56	16	14	7	1	6	2	4	.....
	5.....	99	92	58	16	6	5	1	.....	2	11	.....
	12.....	89	79	40	13	9	12	1	4	7	3	.....
	19.....	76	75	48	9	8	4	.....	2	3	2	.....
June	26.....	72	66	32	15	7	5	1	3	6	3	.....
	2.....	79	74	47	12	6	5	2	1	4	2	.....
	9.....	73	63	27	14	15	5	.....	5	4	2	1
	16.....	67	63	36	15	7	2	2	.....	.....	4	1
	23.....	70	54	30	15	10	4	6	3	.....	1	1

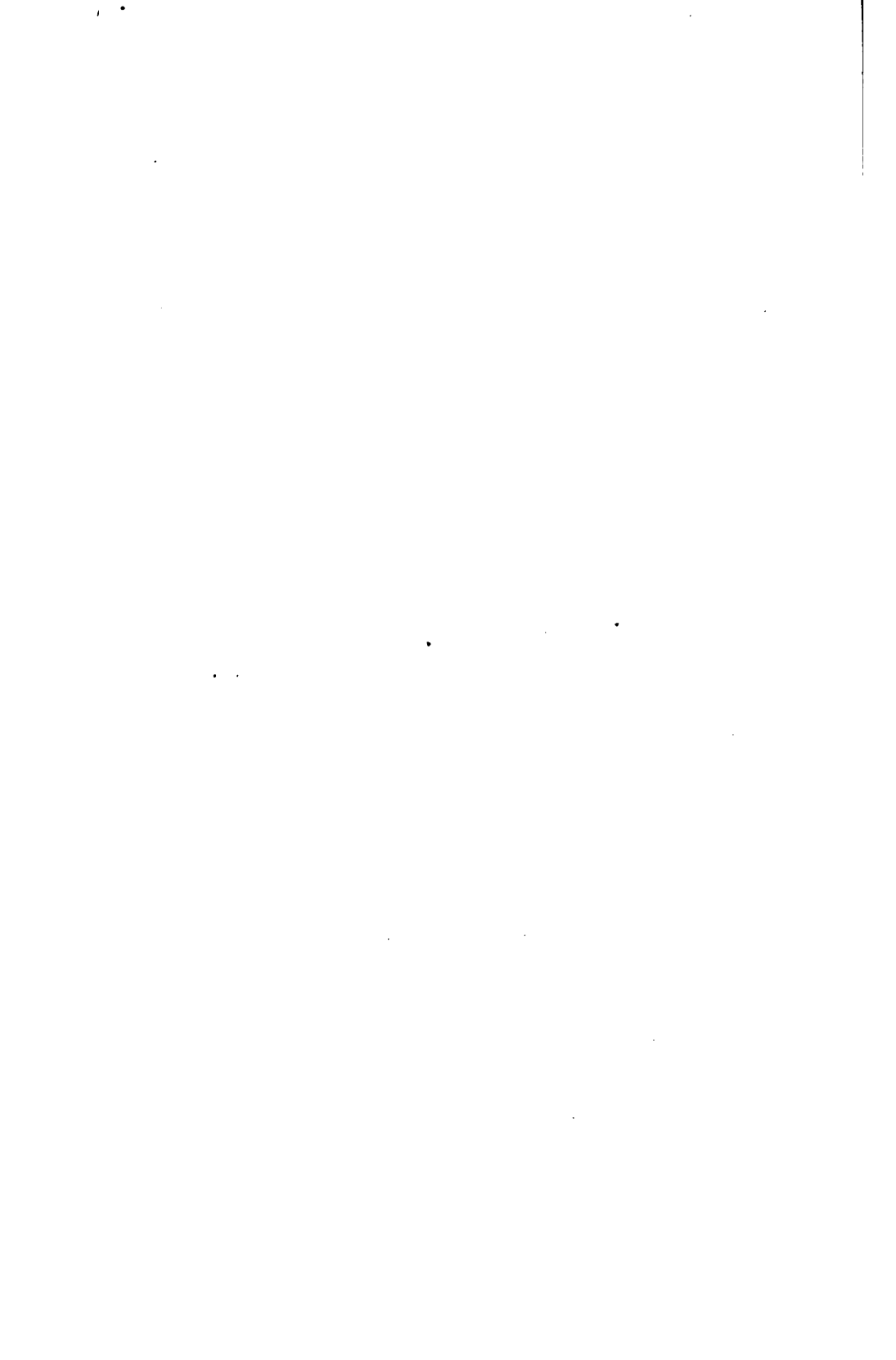


TABLE SHOWING COLOR, SEX, SOCIAL RELATION

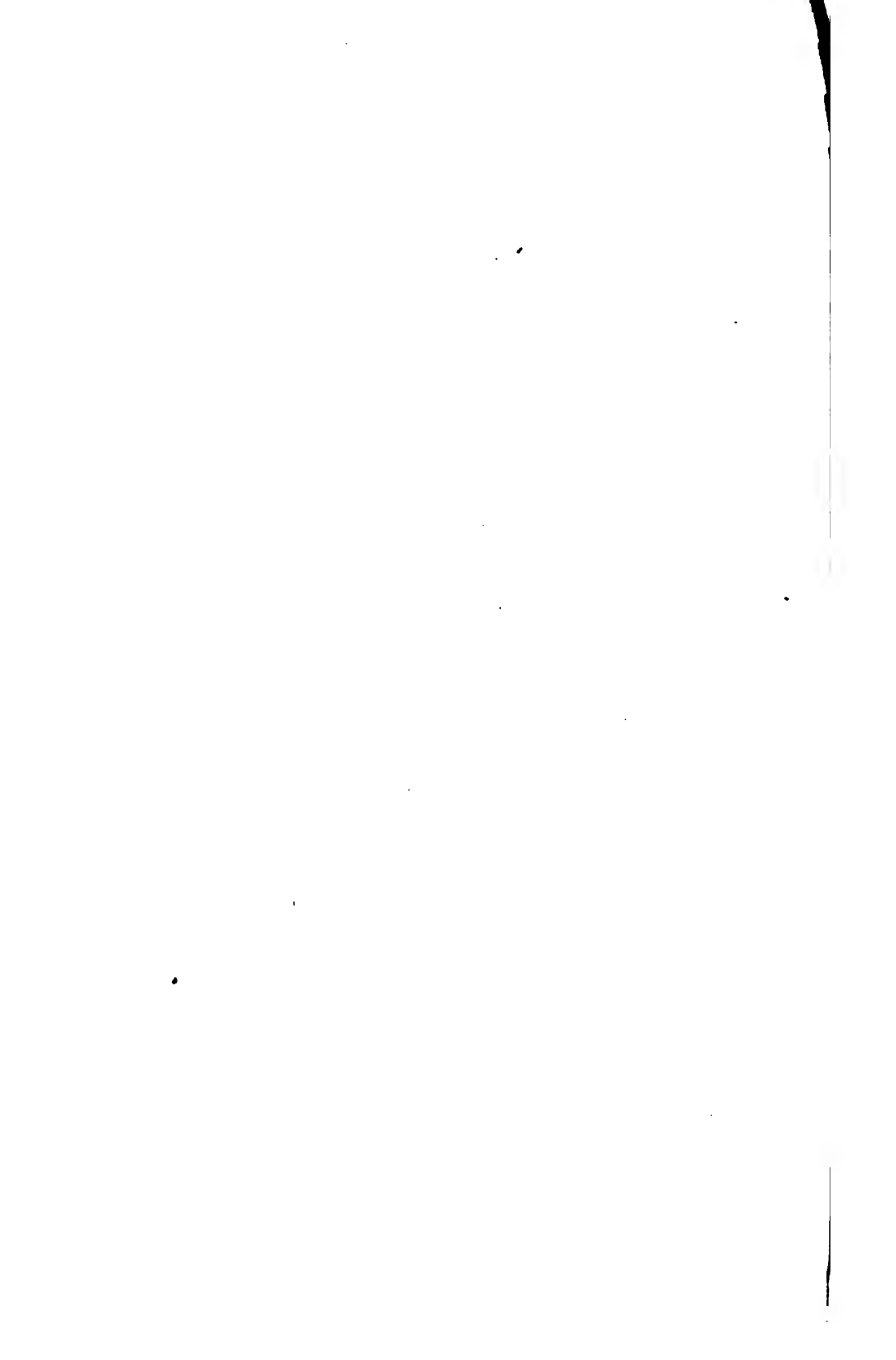
WEEKS ENDING.		Deaths Reported in 1888.	Deaths exclusive of those in Public Institutions.	NATIVITY OF DECEDENTS.								
				Cleveland.	Other parts of the U. S.	Germany.	Ireland.	Canada.	England.	Bohemia.	Other Foreigners.	Unknown.
June	30.....	71	65	28	13	15	3	.....	3	4	4	1
July	7.....	85	76	55	16	8	3	.....	.....	3	.....	.....
	14.....	98	92	66	16	8	2	.....	1	2	3	.....
	21.....	140	132	101	10	10	8	1	5	1	4	.....
	28.....	151	146	117	8	9	6	1	3	2	3	.....
August	4.....	148	139	105	24	10	2	.....	3	4	.....	.....
	11.....	144	138	110	10	13	4	1	2	1	3	.....
	18.....	132	128	89	8	16	11	2	1	.....	4	1
	25.....	91	88	60	8	10	6	1	3	1	2	.....
September	1.....	107	101	70	17	8	2	3	5	2	.....	.....
	8.....	101	99	61	15	7	6	1	6	1	4	.....
	15.....	96	92	68	10	5	1	.....	5	4	2	1
	22.....	76	72	52	11	4	3	1	2	1	2	.....
	29.....	63	52	34	14	6	5	1	.....	2	1	.....
October	6.....	76	69	36	10	15	4	1	4	3	3	.....
	13.....	63	58	29	15	7	4	1	3	1	2	1
	20.....	69	65	25	16	10	9	1	4	2	2	.....
	27.....	65	63	33	9	9	9	1	3	1	.....	.....
November	3.....	52	48	31	6	4	3	1	2	3	2	.....
	10.....	57	51	24	10	11	7	1	2	2	.....	.....
	17.....	53	49	16	16	12	2	1	2	.....	4	.....
	24.....	70	62	24	13	20	3	.....	2	2	6	.....
December	1.....	63	56	25	12	13	6	.....	8	.....	.....	.....
	8.....	64	61	33	13	9	4	2	1	2	.....	.....
	15.....	68	66	30	10	13	7	1	4	1	2	.....
	22.....	59	55	19	13	9	11	.....	1	4	2	.....
	31.....	116	108	55	13	17	13	1	9	3	5	.....
Totals		4,414	3,116	2,414	703	518	304	51	157	116	143	8

1911

1911

DECEMBER 31, 1888.

Scarletina.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Cholera.	Other Diarrhoeal Diseases.	Typhoid Fever.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Deaths from Zymotics.	Total Deaths from all Causes.	Population by Wards.
	6	2	2	11		12	3		2	37	136	7,146
2	2	3	2	16		12	4		4	45	110	5,321
	27	8	3	28		33	6		9	117	335	8,673
1	23	5	7	16	1	25	4		8	92	224	5,521
	2		3	16		17	2	1	6	48	111	5,136
1	9		1	11		15	6		7	50	170	7,444
	2	1	1	5		1	2		5	27	112	4,565
		1		4		1	2		1	9	45	5,346
	3		1	8		2	2		1	17	58	4,771
	3	2	1	1		3	3		2	15	58	4,746
	4	4	3	8		1	3		4	28	81	5,071
1	5	1		4		4	4		3	22	100	6,413
	7	1		6		4	2		5	25	101	6,028
	16	1	2	4		4	2		4	33	132	6,892
	12	1	2	8	2	10	4		8	47	145	6,142
1	7	5	2	22	1	3	6		3	51	186	7,883
2	7	4	2	16	1	4	5		7	49	186	6,321
	3	5	1	12		4	7		6	38	133	6,487
	1	3	2	10	1	7	4		7	35	132	5,134
19	217	75	72	341	7	232	114	3	164	1,258	4,414	235,000



NATIVITY OF DECEDENTS.

Year Ending December 31, 1888.	Male.	Female.	Total.
Cleveland.....	1,272	1,142	2,414
Other parts of the United States.....	365	338	703
Germany.....	268	250	518
Ireland.....	157	147	304
Canada.....	27	18	45
England.....	85	76	160
Bohemia.....	61	58	119
Poland.....	77	66	143
Other Foreigners.....			
Unknown.....	8		8
Total.....	2,319	2,083	4,414

TABLE SHOWING THE CLASSIFIED CAUSES OF DEATH.
REPORTED EACH WEEK DURING THE YEAR 1888; ALSO DEATHS BY SUICIDE.

WEEKS ENDING.	Deaths from all causes in 1888.	Deaths from all causes in 1887.	Deaths reported corresponding Week in 1886.	Deaths reported corresponding Week in 1885.	Deaths reported corresponding Week in 1884.	Deaths from Zymotic diseases.	Deaths from Constitutional diseases.	Deaths from Local diseases.	Deaths from Developmental diseases.	Deaths by Violence.	Deaths by Suicide.	Mean Barometer.	Mean Thermometer.	Mean Humidity. Per Cent.
January 7.....	49	69	47	69	59	18	2	22	6	1	.....	30.07	32.7	79.3
14.....	70	66	67	73	51	15	8	31	12	4	1	30.34	23.1	75.2
21.....	92	86	56	75	56	15	12	41	21	3	.....	30.42	12.9	80.6
28.....	91	66	61	76	51	24	14	36	13	4	1	30.17	16.6	81.9
February 4.....	99	82	47	60	51	18	12	53	13	3	1	30.08	30.8	83.2
11.....	81	77	72	47	46	24	11	36	9	1	.....	29.99	19.1	78.7
18.....	63	68	56	69	54	16	15	22	9	1	1	30.19	30.1	74.3
25.....	76	57	55	70	53	15	10	37	10	4	.....	29.54	34.5	76.3
March 3.....	107	67	65	62	59	19	17	48	18	5	.....	30.27	26.7	77.0
10.....	82	58	74	52	67	14	6	51	7	4	.....	29.42	27.0	68.0
17.....	96	66	91	51	69	21	11	45	6	3	2	30.18	24.9	75.1
24.....	79	94	88	72	60	18	11	37	10	3	1	29.99	29.4	72.0
31.....	76	61	71	78	53	15	9	46	6	.....	.....	30.06	38.8	80.1

TABLE SHOWING THE CLASSIFIED CAUSES OF DEATH.—CONTINUED.

WEEKS ENDING.	Deaths from all causes in 1898.	Deaths from all causes in 1897.	Deaths reported corresponding Week in 1896.	Deaths reported corresponding Week in 1895.	Deaths reported corresponding Week in 1894.	Deaths from Zymotic diseases.	Deaths from Constitutional diseases.	Deaths from Local diseases.	Deaths from Developmental diseases.	Deaths by Violence.	Deaths by Suicide.	Mean Barometer.	Mean Thermometer.	Mean Humidity. Per Cent.
April..... 7.....	95	82	61	69	63	16	16	45	14	4	1	30.09	42.9	70.2
14.....	87	85	61	69	50	13	12	48	13	1	.....	30.16	42.5	65.6
21.....	72	65	75	71	67	15	11	37	6	3	.....	30.11	40.4	68.4
28.....	106	66	67	50	63	15	8	67	12	4	1	30.31	49.5	56.0
May..... 5.....	99	70	64	59	67	16	17	47	15	4	.....	30.00	51.3	66.7
12.....	89	80	38	63	61	13	11	51	9	5	.....	29.95	61.0	71.9
19.....	76	77	50	67	61	13	18	36	8	1	.....	30.06	48.0	67.6
26.....	72	69	48	51	54	11	12	33	7	9	1	29.91	62.2	66.6
June..... 2.....	79	67	67	46	57	18	15	36	7	3	1	29.89	59.3	71.1
9.....	73	63	55	48	56	14	11	36	7	5	1	30.01	64.8	66.0
16.....	67	61	67	58	49	13	7	35	10	2	1	29.93	67.8	66.8
23.....	70	77	54	58	53	15	9	27	15	4	.....	29.95	76.8	67.6
30.....	71	65	61	46	68	12	12	34	8	5	1	29.97	66.4	78.8

TABLE SHOWING THE CLASSIFIED CAUSES OF DEATH.—CONTINUED.

WEEKS ENDING.	Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths 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causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all causes		Deaths from all	
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TABLE SHOWING THE CLASSIFIED CAUSES OF DEATH.—CONTINUED.

WEEKS ENDING.	Deaths from all causes in 1888.	Deaths from all causes in 1887.	Deaths reported corresponding Week in 1888.	Deaths from Zymotic diseases.	Deaths from Constitutional diseases.	Deaths from Local diseases.	Deaths from Developmental diseases.	Deaths by Violence.	Deaths by Suicide.	Mean Barometer.	Mean Thermometer.	Mean Humidity. Per Cent.
October.....13.....	63	86	50	62	95	10	11	30	6	6	2	74.7
20.....	69	83	56	46	100	21	12	20	11	5	.....	69.6
27.....	65	71	63	59	62	20	10	27	6	2	.....	73.3
November... 3.....	52	89	59	61	65	17	5	21	5	4	.....	58.9
10.....	57	65	78	51	80	11	14	25	7	.....	.....	72.4
17.....	53	89	54	51	96	11	12	18	10	2	.....	64.0
24.....	70	85	71	48	95	12	14	29	8	7	.....	71.8
December... 1.....	63	65	60	69	88	11	14	21	11	6	1	82.3
8.....	64	81	58	53	73	11	15	30	6	2	.....	68.5
15.....	68	77	64	65	70	11	14	30	9	4	.....	68.8
22.....	59	80	68	59	71	8	8	30	11	2	.....	76.4
31.....	116	103	67	.....	.....	21	15	53	21	6	.....	72.9
Total.....	4,415	4,139	3,525	3,574	3,732	1,278	651	1,796	494	192	28	

WIND.

Number of T:

N. N.E. E

6	4	4
5	9	7
9	12	8
11	14	4
6	11	8
9	11	7
7	12	9
8	3	4
5	2	7
4	2	1
5	3	6
1	1	0

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WIND.									NUMBER OF DAYS.							
DIRECTIONS.								No. of Calms.								
Number of Times observed Blowing from the—									Clear.	Fair.	Cloudy.	Foggy.	Rainy.	Thunder-storms.	Auroras.	
N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.									
6	4	4	15	11	7	22	22	2	2	9	20	0	25	0	0	
5	9	7	8	19	6	19	13	1	8	10	11	0	11	1	0	
9	12	8	6	13	9	19	17	0	3	16	12	0	17	1	0	
11	16	4	17	9	3	13	17	0	12	7	11	0	11	3	0	
6	11	8	14	18	6	15	13	2	5	17	9	0	13	5	0	
9	11	7	7	17	17	11	10	1	10	16	4	0	13	6	0	
7	12	9	5	8	8	6	6	1	9	11	11	0	10	6	0	
8	3	4	7	10	19	5	5	1	12	9	10	0	6	4	0	
5	2	7	14	6	10	5	5	6	13	10	7	0	12	3	0	
4	2	1	13	13	10	7	12	0	6	7	18	0	12	1	0	
5	3	6	10	14	10	5	7	0	8	5	17	0	17	0	0	
1	1	0	1	14	17	12	13	0	3	7	21	0	16	0	0	
76	86	65	120	152	122	139	140	14	91	124	151	0	163	30	0	
α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	

ween 7 a. m. and 3 p. m. } In case the Precipitation has not equalled 2.50 inches in 24

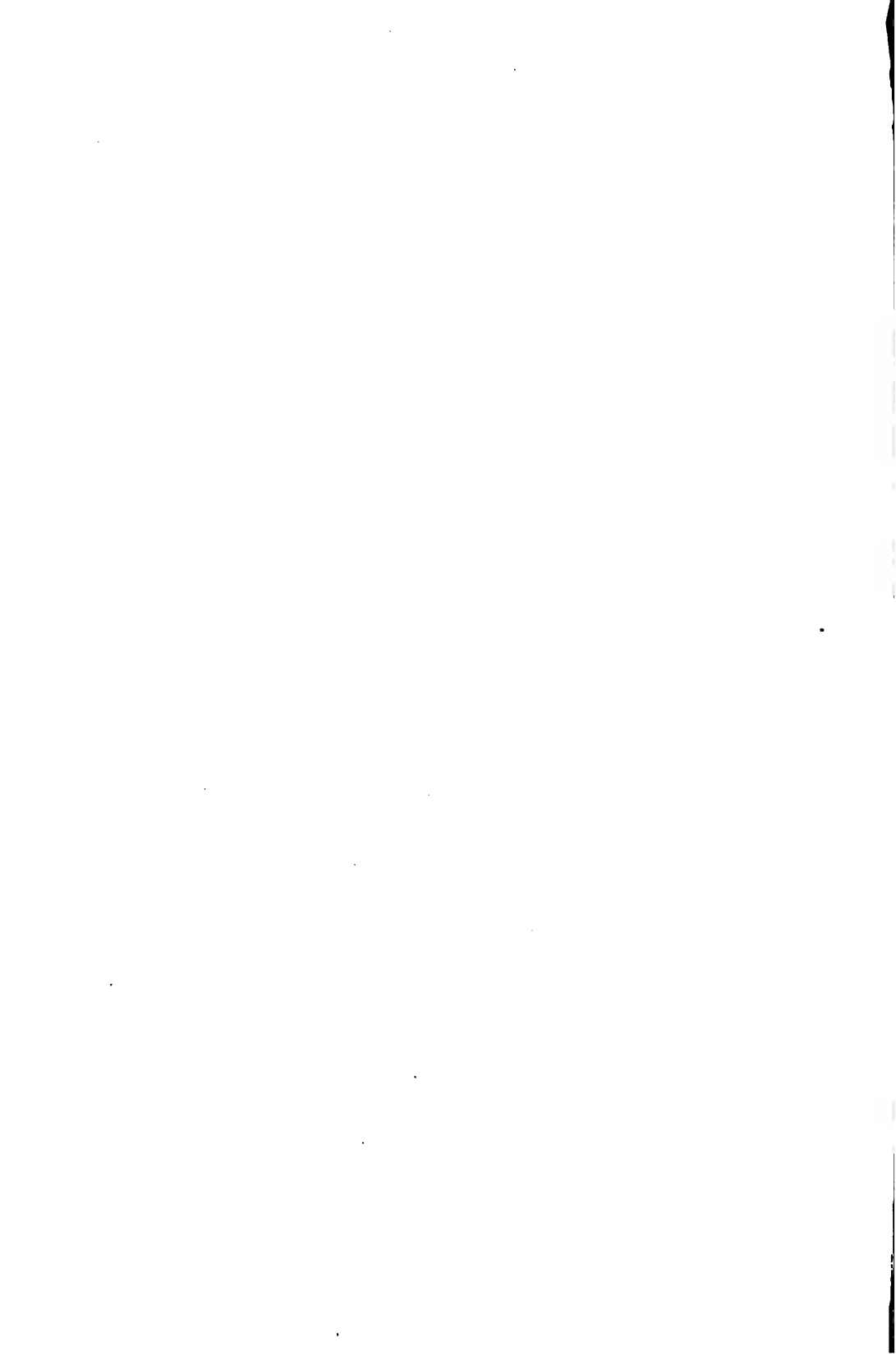
Report of Inspector of Buildings.

Department of Inspection of Buildings.

W. H. DUNN,
Inspector of Buildings.

C. F. STUMM,
Assistant Inspector of Buildings.

HENRY F. WALKER,
Deputy Inspector of Buildings.



Report of the Inspector of Buildings.

CLEVELAND, O., Jan. 1, 1889.

Hon. Brenton D. Babcock, Mayor:

I have the honor herewith to submit my report of the business of this office, from the date of my appointment, May 29, 1888, to the end of the fiscal year, December 31, 1888.

Until the creation of the office of Inspector of Buildings no accurate account has been kept of the amount of building done, showing the rapid growth of the city, a growth which places Cleveland prominent among the great cities of the country.

There are necessarily difficulties in organizing and systematizing any new department of office, and the enforcement of a new law which makes radical changes in the methods (though the changes may be greatly to the advantage of the general public) is liable to encounter some objections. These objections which have arisen from time to time, and which had to be overcome, have made the duties arduous, and at times somewhat unpleasant. They have, however, been few, the general expressions having been favorable.

The main object has been continually kept in mind, viz: greater security to the public during construction of buildings, also to diminish the danger and loss to owners and occupants caused by fire.

Some minor changes could be made which would add to the efficiency of the law.

I have issued about forty notices to owners of what I consider the most important and dangerous buildings to place thereupon suitable Fire Escape stairways for the protection of persons therein employed in case of fire. Up to this date fully four-fifths of those notified have complied. I am confident that with a little patience and perseverance all who receive notices will in time comply with the requirements of the law. In all cases regular stairways are required in place of ladders.

CONDENSED REPORT OF AMOUNT OF BUSINESS FOR SEVEN MONTHS,
FROM JUNE 1, 1888, TO DECEMBER 31, 1888.

Total number of permits issued, 1,673, as follows:

Brick and stone buildings	76
Wood and frame buildings	1,101
Additions and alterations	441
Moving (house) permits	55
Total estimated cost of all structures,	\$3,031,988
Total cost of permits,	\$4,884.59
Total expenses, including office furniture, station- ery, etc.	\$3,571.57
The net profits of the office to the city are	\$1,313.02

I respectfully tender to you my thanks for the aid and encouragement the office has received at your hands. Much credit is also due the Police Department for their valuable assistance in enforcing the building law.

The following is a detailed report of the business of this office.

Respectfully submitted,

W. H. DUNN,

Inspector of Buildings.

BUILDING PERMITS.

BRICK AND STONE.

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 1.				
August 20.....	317	Hill, intersection Central Viaduct.....	\$ 3,000	\$ 5 00
“ 27.....	376	159 and 160 Ontario.....	1,700	1 80
September 6.....	513	Miami Alley, near Huron	725	1 75
December 5.....	1,104	40 Ohio.....	175	1 20
Ward No. 2.				
July 21.....	153	Prospect, corner Erie.....	12,250	14 60
September 14.....	592	244 Erie.....	7,000	7 55
Ward No. 3.				
July 14.....	92	Superior, near Long	65,000	42 00
“ 19.....	128	Lake, near Academy	15,000	28 95
“ 20.....	131	Gerard, near Columbus	3,400	15 30
“ 31.....	211	Lime, near Canal	4,300	4 50
September 15.....	604	17 and 19 Frankfort	4,000	6 60
“ 26.....	683	131 Water.....	75	1 30
Ward No. 4.				
July 6.....	43	Wood, near Lake.....	6,000	6 60
“ 30.....	202	132 St. Clair	25	1 10
August 3.....	225	Ontario, corner Square.....	650,000	180 30
September 4.....	484	Superior, near Erie.....	40,000	47 95

BRICK AND STONE.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 5.				
July 13.....	83	Dodge, near Walnut.....	\$ 8,000	\$ 4 35
Ward No. 6.				
June 23.....	6	582 and 584 Payne.....	2,200	3 72
Ward No. 7.				
August 8.....	254	Belden, near Payne.....	1,950	1 20
Ward No. 9.				
July 24.....	171	Kirtland, near Lake.....	8,500	22 65
August 6.....	245	Hamilton, near King.....	1,100	2 30
" 15.....	296	Lake, near Coe.....	15,000	32 20
September 11.....	554	Marquette, near Lake.....	5,200	6 55
" 18.....	622	Lake, corner Coe.....	14,000	46 20
" 21.....	643	Aaron, near St. Clair.....	12,000	21 00
October 13.....	820	Superior, near Lawrence.....	6,000	9 80
December 13.....	1,144	Belden, corner Hamilton.....	6,000	19 80
Ward No. 10.				
July 10.....	61	42 Bolivar R.....	1,800	2 90
October 5.....	770	Prospect, corner Eric.....	12,000	16 50
" 31.....	939	563 Euclid.....	1,500	3 45
Ward No. 12.				
October 1.....	740	North Place, near Garden.....	2,500	4 90
Ward No. 13.				
July 9.....	52	Garden, near Beech.....	7,000	8 75
Ward No. 15.				
July 25.....	180	North side Woodland, near Willson.....	12,000	20 00
" 25.....	181	North side Woodland, near Willson.....	12,000	20 00
Ward No. 19.				
July 17.....	112	Ansel, near Hough.....	800	5 90

BRICK AND STONE.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 20.				
August 14.....	289	Euclid, East Madison	\$ 58,000	\$ 33 00
" 15.....	286	Cedar, near C. & P. R. R.....	10,000	21 25
September 1.....	470	Garden and C. & P. R. R.....	15,000	30 00
" 21.....	647	472 East Prospect.....	218	1 30
October 15.....	822	East Prospect and C. & P. R. R.....	500	1 05
December 8.....	1,131	Cedar, near Ashland.....	2,100	5 05
Ward No. 21.				
June 23.....	2	815 Fairmount.....	2,700	6 40
Ward No. 22.				
July 3.....	26	3 Griswold.....	1,800	3 38
" 20.....	136	Herald, near Grand.....	1,000	2 00
" 20.....	137	Herald, near Grand.....	2,800	6 45
Ward No. 23.				
June 23.....	11	N. P. and C. & P. R. R.....	1,176	2 13
" 23.....	12	N. P. and C. & P. R. R.....	1,135	3 10
" 23.....	13	N. P. and C. & P. R. R.....	3,000	10 15
August 14.....	288	N. P. and C. & P. R. R.....	3,000	2 45
November 20.....	1,049	Woodland, near East Madison	6,500	No charges.
December 4.....	1,101	Tennison, near C. & P. R. R.....	3,000	14 95
Ward No. 24.				
June 19.....	1	Willson, near N. Y., P. & O. R. R.....	6,000	8 50
" 19.....	2	Willson, near N. Y., P. & O. R. R.....	35,000	62 94
" 19.....	3	Willson, near N. Y., P. & O. R. R.....	2,000	3 16
" 19.....	4	Willson, near N. Y., P. & O. R. R.....	5,000	16 22
August 1.....	216	Petrie, near Vivian.....	1,000	4 10
Ward No. 25.				
July 19.....	127	Broadway, near Engel	18,500	41 40
August 10.....	264	Tod, near N. Y., P. & O. Ry.....	9,000	22 30
December 5.....	1,114	Broadway, corner Willson.....	3,800	4 40

BRICK AND STONE.—Continued.

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 26.				
August 9.....	240	Burke, near C. & P. Ry	\$ 8,000	\$ 20 85
October 15....	342	Burke, near C. & P. Ry	6,500	17 75
Ward No. 28.				
July 24.....	169	85 Elm	3,500	10 45
August 18....	309	Main, corner Center.....	1,000	3 50
September 27.	695	Spencer, corner Elm.....	6,000	6 00
Ward No. 29.				
July 5.....	33	Clinton, near Taylor	5,880	11 48
" 13.....	82	250 Detroit.....	1,000	3 25
" 20.....	132	S. W. Detroit, near Hanover.....	4,500	8 70
Ward No. 32.				
September 7...	552	258 Courtland	2,521	3 30
Ward No. 33.				
July 6.....	40	Jersey, near Carroll.....	35,000	41 45
August 9.....	259	Bridge, near Pearl.....	9,575	23 00
" 31....	449	Pearl, near Franklin.....	18,000	26 35
September 4...	483	Pearl, corner Carroll	2,500	7 70
Ward No. 34.				
July 3.....	24	Brainard, near Abbey.....	1,300	2 11
September 29.	722	338 Pearl.....	65	1 00
Ward No. 36.				
July 14.....	91	1420 Lorain.....	850	5 45
Ward No. 37.				
September 18.	614	208 University.....	900	1 70
Ward No. 39.				
July 21.....	152	Scranton, near Clark.....	60,000	93 60
September 11.	560	Vega, near Rhodes.....	2,000	3 80
Ward No. 40.				
September 14.	586	Train, corner Ash.....	4,000	12 00

WOOD AND FRAME.

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 1.				
December 23..	1,173	Central Way, near Harrison.....	\$ 300	\$ 2 55
Ward No. 4.				
July 3.....	32	196 Hamilton.....	900	2 03
Ward No. 5.				
June 29.....	16	Muirson, near Euclid.....	2,500	4 60
" 29.....	17	Muirson, near Euclid.....	3,500	5 90
September 28..	718	Dodge, near Chestnut.....	5,700	6 50
" 29.....	724	Davenport, near Canfield.....	1,400	3 20
October 1	728	136 Walnut.....	200	2 00
November 14..	1,018	257 St. Clair.....	50	1 20
Ward No. 6.				
July 14.....	88	121 Phelps.....	800	1 85
" 23.....	156	Hurlbut, near Sterling.....	400	1 65
" 26.....	188	Hazard, near Superior.....	3,400	4 30
" 27.....	193	Hurlbut, near Payne.....	500	1 45
" 28.....	199	2371 Spafford.....	1,175	2 60
August 18.....	308	Hurlbut, near Sterling.....	700	2 15
" 31.....	448	151 Sterling.....	900	2 45
September 3...	481	Hurlbut, near Payne.....	500	2 00
" 12.....	569	Perkins, near Payne.....	1,000	2 25
" 13.....	581	6 Hurlbut.....	400	1 60
" 14.....	587	606 Euclid.....	375	1 25
October 8.....	783	115 Phelps.....	400	1 60
" 25	902	Hazard, near Superior.....	1,000	3 15
" 25.....	901	Hazard, near Superior.....	3,200	5 55
" 25.....	903	Hazard, near Superior.....	3,200	5 55
November 7...	976	Hazard, near Superior.....	225	1 65
" 9.....	988	876 Payne.....	400	1 45
" 12.....	1,002	121 Huntington.....	50	1 15

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 6.—Continued.				
November 14..	1,017	Euclid, corner Sterling.....	\$ 150	\$ 1 45
" 26..	1,064	Hurlbut, near Payne.....	400	1 95
December 3..	1,096	Hazard L. 178.....	3,500	5 65
Ward No. 7.				
June 28.....	9	185 Wason.....	800	2 00
" 30.....	18	Willson, near White	4,500	6 50
July 2.....	22	Superior, near Aaron.....	1,500	4 24
" 10.....	60	38 East Court.....	800	2 10
" 13.....	85	37 Buckeye.....	600	2 00
" 14.....	94	Portland, near Willson.....	750	1 90
" 16.....	109	Perkins, near Payne	1,180	1 70
" 25.....	184	Hoadley, near Superior.....	2,800	3 00
" 31.....	208	185 Wason.....	1,300	2 55
August 4.....	231	51 McHenry.....	800	2 00
" 11.....	267	Hoadley, near Superior	4,200	5 70
" 27.....	368	265 Case.....	1,700	3 30
" 27.....	369	Corner Case and Payne.....	2,500	18 40
" 28.....	377	124 Aaron.....	1,200	3 25
September 3..	475	Mason, near Hoadley	450	2 75
" 5..	491	154 Lyman.....	975	2 30
" 5..	492	154 Lyman.....	975	2 30
" 5..	493	154 Lyman.....	975	2 30
" 5..	494	154 Lyman.....	975	2 30
" 5..	495	154 Lyman.....	975	2 30
" 5..	520	L. 10 Kirtland.....	1,400	3 55
" 11..	552	Lyman, corner Superior.....	1,690	3 65
October 4.....	757	L. 87 McHenry.....	800	2 30
" 6.....	771	144 Lyman.....	950	2 30
November 10..	998	474 Willson.....	350	2 00
" 16..	1,028	Kirtland, corner Superior.....	2,500	4 45
" 20..	1,044	Margarette, near Willson	1,000	1 95
" 20..	1,045	Margarette, near Willson.....	1,000	1 95

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 7.—Continued.				
November 20.	1,047	1081 Payne.....	\$ 600	\$ 2 10
December 3...	1,092	R. 415 Case.....	300	2 60
Ward No. 8.				
June 29.....	14	353 Lake	1,500	2 64
July 21.....	148	Corey, near Lex.....	1,100	2 10
August 15.....	291	531 St. Clair.....	1,500	3 55
" 15.....	292	529 St. Clair.....	1,200	2 60
" 22.....	335	422 Lake.....	1,250	3 05
September 27.	693	R. 818 Superior.....	400	1 95
October 15.....	825	599 St. Clair.....	2,300	4 40
" 18.....	875	414 Hamilton.....	400	1 65
Ward No. 9.				
July 11.....	64	Asylum, near Superior	1,600	3 15
" 11.....	70	Oxford, near St. Clair.....	900	2 05
" 12.....	71	St. Clair, near Ranney	500	1 80
" 13.....	78	674 St. Clair.....	900	2 10
" 13.....	79	2 Brunswick	950	2 00
" 17.....	115	St. Clair, near Coe	2,700	5 10
" 24.....	174	Perceval, near Superior.....	600	1 95
" 26.....	189	Kirtland, near Lake.....	645	3 95
" 28.....	196	Oxford, near St. Clair.....	1,500	2 40
" 28.....	197	Oxford, near St. Clair.....	790	2 10
August 7.....	247	Hamilton, near Belden.....	650	3 40
" 8.....	255	135 Hoyt.....	900	2 05
" 23.....	349	Asylum, near Superior	1,500	2 65
" 24.....	351	Case, near Superior	200	1 95
" 25.....	360	Wilson, corner Home.....	1,048	1 90
" 31.....	447	29 Percival.....	700	1 80
September 6.....	517	Asylum, near Superior.....	1,400	2 75
" 11.....	553	105 Wason.....	550	1 85
" 15.....	600	Belden, near Payne.....	250	1 50

WOOD AND FRAME.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 9.—Continued.				
September 18.	615	L. 559 Hamilton.....	\$ 925	\$ 2 40
" 20.	636	925 St. Clair.....	484	2 15
" 22.	653	799 Lake.....	1,200	3 30
" 22.	655	77 Hoyt.....	600	2 10
" 25.	674	51 Hoyt.	500	1 70
" 25.	678	410 Lake	100	1 35
October 9.....	791	Brunswick, near St. Clair.....	1,600	2 95
" 19.....	879	16 Lyman.....	650	2 05
November 13.	1,006	782 St. Clair.....	40	1 05
" 13.	1,013	Hamilton, corner Kirtland.....	300	4 45
" 17.	1,034	927 St. Clair.....	1,880	3 65
" 22.	1,058	171 Belden	900	2 35
" 26.	1,063	38 Lake View Ave.....	275	1 55
December 4...	1,100	Hoyt, near Merkle.....	600	1 70
" 8...	1,126	Percival, near Superior.....	600	1 90
" 8...	1,130	Ravenna, near Lake Eric.	60	1 90
" 20..	1,159	37 Hoadley.....	1,500	2 55
" 26..	1,167	Lake, near Willson.....	700	2 95
" 29..	1,174	Lawrence, near L. S. Ry.....	600	3 85
Ward No. 10.				
July 17.....	116	210 Woodland.....	3,000	4 25
October 5	921	66 Webster.....	275	1 85
Ward No. 11.				
July 23.....	160	8½ Vine.....	400	1 60
Ward No. 12.				
July 16.....	109	Prospect, near Sterling.....	10,000	9 70
" 31.....	213	36 Newton	800	2 00
October 31.....	947	291 Cedar.....	150	1 75
November 8...	984	36 Newton.....	800	1 85
" 16.	1,033	181 Sibley.....	350	2 15
" 20.	1,048	125 Garden.....	40	1 75

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 13.				
June 21.....	8	Case, near Scovill.....	\$ 4,000	\$ 5 25
" 28.....	10	Kennard, near Garden.....	3,000	7 00
July 9.....	57	1284 Willson.	9,000	7 29
" 17.....	117	Beech, near Scovill.....	3,800	4 60
" 21.....	155	Case, near Garden	6,500	7 55
" 31.....	215	106 Greenwood.....	400	2 05
August 18	302	965 Forest.....	900	2 20
" 23.....	346	Beech, near Garden.....	1,800	4 40
September 6.....	501	Case, near Scovill.....	4,600	5 08
" 10.....	536	Osborn, near Garden.....	385	1 60
" 10.....	546	Kennard, near Garden....	4,000	4 40
October 3.....	749	R. 25 Hackman.....	450	1 65
" 9.....	787	965 Forest.....	700	2 45
" 13.....	816	Forest, near Scovill.....	3,100	4 80
" 17.....	865	Beech, near Garden.....	2,000	4 75
" 18.....	870	Arlington, near Scovill.....	3,000	3 35
" 24.....	898	Arlington, near Scovill.....	2,800	4 30
" 30.....	1,066	28 Marion.....	100	1 35
Ward No. 14.				
July 13.....	81	E. S. Case, near Euclid.....	5,000	6 45
" 14.....	95	10 and 12 William.....	2,875	4 55
August 7.....	251	Grant, near Cedar.....	1,700	2 05
" 14.....	286	Kennard, near Garden.....	5,000	5 40
" 28.....	388	354 Kennard.....	4,100	5 65
September 8.....	524	Arlington Court, near Garden.....	1,700	2 85
" 10.....	542	Kennard, near Garden.....	4,000	4 20
" 26.....	688	Arlington Court, near Garden.....	1,800	2 65
October 1.....	737	Arlington Court, near Garden.....	1,650	2 35
" 10.....	799	Sibley, near Case.....	2,945	4 60
" 10.....	800	Sibley, near Case.....	2,945	4 60
" 11.....	803	E. S. Case, near Cedar.....	4,700	5 40
" 11.....	804	E. S. Kennard, near Cedar.....	5,600	8 65

WOOD AND FRAME.—Continued.

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 14.—Continued.				
October 16....	853	Arlington Court, near Garden.....	\$ 1,500	\$ 2 30
“ 16....	854	Arlington Court, near Garden.....	1,500	2 30
November 7...	979	Prospect, near Hayward.....	10,000	11 80
Ward No. 15.				
July 1.....	21	Scovill, near Linden.....	2,600	4 30
“ 17.....	118	Woodland, near Forest.....	4,300	4 75
September 11..	555	Centre Court, near Woodland.....	1,350	2 60
“ 11.....	556	Centre Court, near Woodland.....	1,350	2 60
“ 17.....	606	L. 56 Portland.....	1,580	2 80
“ 24.....	662	194 Scovill.....	800	2 00
“ 25.....	676	46 R. Outhwaite.....	180	1 75
“ 27.....	702	Linden, near Woodland.....	500	2 10
“ 28.....	710	Centre Court, near Woodland.. ..	1,700	2 75
October 1.....	735	830½ Woodland.....	800	2 70
“ 1.....	738	830½ Woodland.....	700	1 70
“ 31.....	942	Centre Court, near Woodland.....	1,700	2 45
November 8...	961	Sawtell, near Outhwaite.....	500	1 85
“ 9...	995	Woodland, near Putnam.....	2,800	5 40
“ 13.....	1,003	152 Scovill.....	900	2 05
“ 27.....	1,071	Longwood, near Woodland.....	5,300	6 15
December 5...	1,110	Centre Court, near Woodland.. ..	3,000	4 00
“ 10.. 4	1,134	52 Henry.....	200	1 70
Ward No. 16.				
August 2.....	221	7 Irving.....	800	2 30
“ 6.....	238	225 Orange	3,300	4 85
“ 21.....	327	186 R. Orange.....	575	1 60
September 18..	620	169 Orange.....	1,615	2 65
“ 19.....	628	346 R. Woodland.....	115	1 90
October 15.....	827	Cherry, near Perry.....	762	2 00
November 21..	1,051	40 Cherry.....	750	2 80
“ 26.....	1,067	Broadway, near Perry.....	870	3 85

WOOD AND FRAME.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 17.				
June 29.....	15	Woodland, near Osborn.....	\$ 3,200	\$ 4 17
July 3.....	25	Orange, near Forest.....	5,000	5 02
" 5.....	34	Willson, near Scovill.....	2,230	4 70
" 5.....	35	Orange, near Irving.....	1,200	2 62
" 5.....	36	Woodland, corner W. Court.....	5,000	13 24
" 5.....	38	Myrtle Court, near Sawtell.....	1,100	2 57
" 5.....	39	Myrtle Court, near Sawtell.....	1,100	2 57
" 11.....	67	65 Woodland Court.....	100	1 50
" 16.....	103	71 Seelye.....	1,600	2 40
" 23.....	157	Julia, near Willson.....	1,000	2 50
" 23.....	163	Sawtell, near Woodland.....	3,000	3 85
" 24.....	172	115 Sawtell.....	1,200	3 65
" 26.....	190	Woodland, near Longwood.....	3,500	4 05
August 4.....	228	86 Seelye.....	3,500	4 50
" 4.....	229	84 Seelye.....	3,500	4 50
" 6.....	236	Seelye, near Woodland.....	1,600	2 65
" 6.....	237	Seelye, near Woodland.....	1,600	2 65
" 21.....	326	Woodland, near Forest.....	1,600	2 40
September 13.....	582	Davis Court, near Sawtell.....	1,500	2 50
October 1.....	730	Myrtle Court, near Sawtell.....	840	2 10
" 5.....	764	Davis Court, near Sawtell.....	150	3 20
" 17.....	862	L. 2 Seelye Ave.....	750	1 95
" 22.....	891	R. 624 Woodland.....	425	1 50
" 26.....	907	48 Davis Court.....	1,500	2 95
November 1.....	952	Burwell extension, near Woodland.....	500	1 85
" 7.....	977	Sawtell, near Woodland.....	3,600	6 10
Ward No. 18.				
June 23.....	5	Dibble, near Willson.....	1,750	3 00
July 3.....	29	Hilburn, near Madison.....	4,000	5 03
" 7.....	45	131 Beecher.....	1,000	2 83
" 11.....	62	St. Clair, near Ranney.....	550	1 70
" 11.....	69	White, near Becker.....	3,000	3 50

WOOD AND FRAME.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 18.—Continued.				
July 12.....	72	102 Ranney.....	\$ 550	\$ 1 40
" 12.....	73	Willson Court.....	950	1 25
" 12.....	74	Dunham, near Whitney.....	650	2 45
" 13.....	86	Lewis, near Becker.....	600	1 85
" 14.....	87	Wilmer, near Becker.....	950	1 98
" 14.....	96	L. 92 Dibble.....	1,200	2 30
" 16.....	98	Hough, near Giddings.....	1,400	2 70
" 16.....	102	Norwood, near Dibble.....	854	2 15
" 16.....	105	Moulton, near Superior.....	700	2 05
" 16.....	106	Hough, near Brookfield.....	3,500	3 95
" 17.....	114	Lexington, near Norwood.....	1,600	3 35
" 18.....	120	Madison, near Hough.....	3,400	4 40
" 18.....	121	Euclid, near Russell.....	4,700	7 50
" 13.....	80	Dorchester, near Euclid.....	2,000	3 10
" 19.....	125	Superior, near Norwood.....	2,500	8 90
" 19.....	129	Euclid, near Dunham.....	10,000	20 00
" 19.....	130	Russell, near Superior.....	1,200	2 85
" 21.....	149	170 Dunham.....	775	1 65
" 24.....	170	Russell, near Euclid.....	3,000	5 55
" 25.....	183	408 Giddings.....	2,000	3 55
" 26.....	191	6th avenue, near Willson.....	4,500	5 00
" 28.....	198	Lena, near Norwood.....	1,200	2 30
" 28.....	200	Ranney, near Superior.....	110	1 25
" 30.....	201	6 Bliss Ave.....	800	2 20
" 31.....	212	Dorchester, near Euclid.....	6,000	5 20
August 2.....	222	Dunham, near Astor.....	900	2 70.
" 3.....	224	1297 Lexington.....	650	1 80
" 3.....	227	Ranney, near Becker.....	400	1 90
" 6.....	233	104 Ranney.....	300	1 60
" 13.....	271	42 Luther.....	800	2 10
" 14.....	283	Bliss, near Madison.....	850	2 25
" 14.....	284	St. Clair, near Bliss.....	850	2 25
" 14.....	285	Melrose, near Giddings.....	1,440	2 90

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 18.—Continued.				
August 17.....	301	Russell, near Lexington.....	\$ 1,100	\$ 2 15
" 17.....	305	6th avenue, near Norwood.....	1,200	2 30
" 17.....	306	6th avenue, near Norwood.....	1,200	2 30
" 21.....	323	St. Clair, near Madison.....	1,600	2 30
" 22.....	328	Superior, near Madison.....	1,750	4 95
" 22.....	329	Bliss, near St. Clair.....	1,150	2 45
" 22.....	330	64 6th avenue.....	600	2 60
" 22.....	331	1239 St. Clair.....	3,000	10 30
" 22.....	337	212 Norwood.....	1,000	2 80
" 23.....	348	Astor, near Giddings.....	400	1 70
" 24.....	350	Madison, near St. Clair.....	1,350	3 50
" 24.....	354	Lewis, near St. Clair.....	170	1 65
" 25.....	365	77 Dibble.....	1,650	3 10
" 27.....	366	Dibble, near Norwood.....	1,800	2 70
" 27.....	374	35 Kinsvatter.....	1,000	4 10
" 28.....	378	L. 50 Bliss.....	440	1 40
" 28.....	383	L. 98 Ranney.....	450	1 65
" 28.....	384	Ranney, near St. Clair.....	450	1 65
" 28.....	385	L. 40 Bliss.....	600	1 75
" 28.....	392	Bliss, near St. Clair.....	450	1 45
" 29.....	395	L. 41 Bliss.....	600	1 75
" 29.....	396	L. 54 Bliss.....	500	2 00
" 29.....	400	L. 53 Bliss.....	600	1 50
" 30.....	403	61 White.....	1,000	2 00
" 31.....	405	340 Norwood.....	1,000	2 65
" 30.....	411	Luther, near Willson.....	800	1 05
" 31.....	445	Ranney, near Bliss.....	620	2 40
" 31.....	446	Bliss, near Becker.....	275	1 40
September 1.....	454	L. 34 Bliss.....	450	1 75
" 1.....	455	Lewis, near St. Clair.....	600	1 90
" 1.....	467	Ranney, near Bliss.....	850	2 20
" 1.....	468	L. 37 Bliss.....	600	1 70
" 4.....	487	110 Dibble.....	1,000	2 45

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 18.—Continued.				
September 6...	498	1246 Lexington.....	\$ 800	\$ 2 20
" 6...	516	L. 21 Bliss.....	600	2 05
" 7...	521	Light, near Madison.....	500	1 75
" 8...	526	Dorchester, near Hough.....	2,600	4 55
" 8...	528	L. 49 Bliss.....	400	1 50
" 8...	533	L. 16 Dibble.....	1,900	3 10
" 10.	548	L. 93 Ranney.....	375	1 90
" 10.	549	L. 92 Ranney.....	375	1 90
" 10.	550	L. 39 Bliss.....	350	1 50
" 11.	557	Superior, near Dana.....	450	1 90
" 11.	562	Lewis, near Bliss.....	600	1 95
" 13.	580	Corey, near Madison.....	500	1 60
" 13.	583	Dorchester, near Hough.....	2,500	4 05
" 14.	593	Wade Park avenue, near Dunham.....	1,400	2 30
" 15.	599	45 6th avenue.....	500	2 00
" 17.	607	L. 91 Ranney.....	300	1 90
" 18.	618	30 Astor.....	660	1 65
" 18.	619	32 Astor.....	660	1 65
" 19.	630	Ranney, near Becker.....	300	1 55
" 20.	633	Bliss, corner St. Clair.....	2,025	7 60
" 21.	642	L. 150 Lewis.....	550	2 00
" 21.	649	Becker, near St. Clair.....	800	2 35
" 21.	652	Willson, corner Prosser.....	300	2 10
" 24.	658	L. 69 St. Clair.....	525	2 05
" 24.	659	R. L. 69 St. Clair.....	200	1 30
" 25.	671	1430 St. Clair.....	1,250	2 85
" 27.	691	E. Madison, near Superior.....	1,200	2 80
" 28.	707	321 Rockford.....	400	1 75
October 1.....	734	Luther, near Willson.....	800	2 25
" 5.....	767	Dorchester, near Euclid.....	4,000	4 75
" 5.....	769	Willson, near Prosser.....	2,000	3 60
" 9.....	790	Bliss, near St. Clair.....	600	2 05
" 9.....	794	Olive, near Hough.....	4,000	5 95

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 18.—Continued.				
October 13.....	815	6th avenue, near Willson.....	\$ 1,800	\$ 3 30
" 16.....	851	Superior, near Becker.....	1,900	7 25
" 17.....	857	Norwood, near 6th avenue.....	1,400	2 00
" 17.....	858	Lena, near Willson.....	1,400	2 65
" 17.....	859	Lena, near Willson.....	1,400	2 65
" 17.....	860	Quimby, near Russell.....	1,000	2 45
" 17.....	864	S. S. 6th avenue, near Willson.....	2,500	3 45
" 18.....	867	Quimby, near Giddings.....	450	1 60
" 18.....	873	Russell, near Euclid.....	5,000	4 45
" 20.....	884	Willson Place, near Willson.....	750	1 80
" 22.....	886	1279 Lexington.....	2,000	3 00
" 22.....	887	1277 Lexington.....	2,000	3 00
" 22.....	889	L. 23 Bliss.....	750	2 45
" 26.....	904	Quimby, near Dunham.....	40	1 30
" 27.....	913	Dorchester, near Hough.....	2,700	3 05
" 27.....	915	Peck, near St. Clair.....	400	1 95
" 27.....	916	Peck, near St. Clair.....	400	1 95
" 27.....	917	Peck, near St. Clair.....	400	1 95
" 27.....	918	Dibble, near Norwood.....	1,000	3 55
" 29.....	925	L. 27½ Peck.....	550	1 95
" 29.....	926	L. 27½ Peck.....	550	1 95
" 29.....	927	L. 2 7 Peck.....	550	1 95
" 29.....	928	Astor, near Dunham.....	500	2 00
November 1.....	953	Bliss, near St. Clair.....	710	1 95
" 3.....	967	Becker, near Bliss.....	600	2 00
" 5.....	969	E. Madison, near St. Clair.....	800	1 85
" 8.....	983	Astor, near Dunham.....	450	1 75
" 14.....	1,015	Dorchester, near Euclid.....	5,500	5 75
" 14.....	1,016	St. Clair, near Hoyt.....	150	1 25
" 14.....	1,019	Inglesial, near Euclid.....	6,000	5 55
" 15.....	1,020	Dibble, near Norwood.....	1,400	3 50
" 16.....	1,027	L. 13 Wilmer.....	950	3 15
" 19.....	1,089	Bliss, L. 25.....	395	1 35

WOOD AND FRAME.—Continued.

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 18.—Continued.				
November 19.	1,040	1 Willson	\$ 5,000	\$ 7 80
" 19.	1,041	Willson No. 2.....	5,000	7 80
" 19.	1,042	Willson No. 3.....	5,000	7 80
" 19.	1,043	L. 481 Russell.....	800	2 50
" 22.	1,054	Ranney, near St. Clair.....	700	2 00
" 23.	1,060	467 Norwood.....	600	2 00
" 24.	1,061	Russell, near Quimby.....	1,500	2 40
" 27.	1,070	Luther, near Willson.....	800	1 90
" 28.	1,079	1370 Euclid.....	1,500	2 80
" 28.	1 085	L. 7 Bliss.....	850	2 65
" 30.	1,088	L. 179 Peck.....	550	1 95
" 30.	1,089	L. 178 Peck.....	550	1 95
December 5...	1,107	Dorchester, near Euclid.....	3,000	3 60
" 5...	1,112	Dorchester, near Hough	2,500	2 80
" 8...	1,037	Giddings, near Superior	2,500	5 50
" 13..	1,143	L. 8 Wilmer.....	925	2 55
" 13..	1,147	L. 12 Bliss.....	700	2 40
" 31..	1,181	336 Hodge.....	600	1 80
Ward No. 19.				
July 3.....	23	38 and 40 Corey	1,600	3 85
" 14.....	93	9 Halsey.....	240	1 20
" 17.....	113	Hough, near Bolton.....	2,200	4 30
" 20.....	138	Corey, near E. Madison.....	800	1 65
" 25.....	185	37 Holt.....	1,000	2 20
August 3.....	226	Crawford R., near Harkness.....	1,000	2 70
" 6.....	241	Edmonds, near Holt.....	1,400	2 55
" 6.....	242	Edmonds, near Holt.....	315	1 40
" 6.....	243	Edmonds, near Holt.....	315	1 40
" 6.....	244	Edmonds, near Holt.....	313	1 40
" 7.....	248	Hough, near Cornelia.....	650	2 00
" 7.....	250	1634 Superior.....	1,000	2 15
" 8.....	253	Hodge, near Lockyear.....	900	2 35

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 19.—Continued.				
August 11.....	266	E. Madison, near Euclid	\$ 4,750	\$ 6 00
" 11.....	268	Hodge, near Superior.....	550	2 00
" 28.....	387	Becker, near St. Clair.....	1,500	4 35
September 1.....	469	Glen Park R., near Lincoln.....	3,500	6 55
" 3.....	479	1706 Hough.....	270	1 65
" 6.....	512	Crawford, near Doan.....	400	3 20
" 11.....	559	Madden, near St. Clair.....	300	1 35
" 12.....	565	739 Genesee.....	550	2 55
" 13.....	576	Hough, near Harkness.....	600	2 20
" 15.....	596	Hough Place, near Holt.....	1,500	3 15
" 15.....	597	Hough Place, near Holt.....	1,500	3 15
" 19.....	626	Corey, near Madison.....	1,100	2 15
" 21.....	644	Decker, near East Madison	700	1 60
" 21.....	645	Decker, near East Madison	700	1 60
" 21.....	646	Monroe, near East Madison.....	525	1 90
" 24.....	667	Hough Place, near Harkness.....	1,200	2 35
" 27.....	699	Tilden, corner Crawford.....	1,000	2 25
October 2.....	741	L. 2 Star avenue.....	1,250	2 30
" 2.....	742	L. 4 Star avenue.....	1,250	2 30
" 6.....	775	Becker, near St. Clair.....	500	1 90
" 8.....	781	L. 3 Hodge.....	800	2 10
" 8.....	785	Hough, corner Marcy.....	2,500	7 90
" 11.....	796	Decker, near East Madison.....	1,000	3 75
" 13.....	813	L. 22 Hodge.....	600	1 75
" 13.....	817	Genesee, near Crawford.....	5,500	4 80
" 15.....	847	Wade Park avenue, near Genesee.....	1,400	2 35
" 16.....	849	Hodge, near St. Clair.....	1,200	3 60
" 19.....	878	Becker, near Bliss.....	750	2 00
" 19.....	880	Armory Court, near Madison.....	1,000	1 80
" 19.....	881	Armory Court, near Madison.....	1,000	1 80
" 30.....	933	Crawford R., near Hough.....	500	2 00
" 31.....	940	Hough P., near Holt.....	1,500	3 15
November 3.....	968	L. 35 Robinson.....	850	2 00

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 19.—Continued.				
November 16.	1,029	L. 14 Princeton	\$ 900	\$ 2 15
" 28.	1,075	Park Place, near Brookfield	1,500	2 40
" 28.	1,076	Park Place, near Brookfield	1,500	2 40
" 28.	1,077	Brookfield, near Park Place	1,500	2 40
" 28.	1,078	Brookfield, near Park Place	1,500	2 40
" 28.	1,090	Park Place, near Brookfield	1,500	2 75
" 28.	1,081	Genesee, near Madison	4,500	5 55
December 3...	1,093	Hough Place, near Holt	1,250	2 30
" 6...	1,118	Hough avenue, B. 31	2,000	3 45
" 6...	1,119	B. 32 Hough avenue	2,000	3 45
" 6...	1,120	B. 33 Hough avenue	2,000	3 45
" 6...	1,121	Bolton, near Hough	2,000	3 45
" 12...	1,141	L. 19 Decker	800	2 20
" 15...	1,155	Park Place, near Euclid	1,500	2 55
" 22...	1,160	L. 6 Hough avenue	1,000	2 30
" 31...	1,182	L. 41 Hough avenue	800	2 90
Ward No. 20.				
June 30.....	19	First, near Quincy	1,800	4 10
July 6.....	41	Baden, near Quincy	600	1 47
" 14.....	89	Hodge, near St. Clair	840	2 00
" 19.....	128	32 Richards	600	1 75
" 20.....	141	S. E. Garden	750	1 85
" 21.....	151	68 Jessie	600	2 10
" 21.....	154	370 E. Prospect	600	2 95
" 25.....	178	Euclid P., near Euclid	6,000	6 70
" 30.....	207	1017 Cedar	3,700	4 70
August 9.....	258	31 Montgomery	1,200	2 60
" 14.....	290	Garden, corner Brenton	2,380	3 55
" 20.....	321	Euclid Place	4,000	4 05
" 23.....	339	Quincy, near Baden	1,000	2 40
" 23.....	344	Brenton, near Garden	1,800	2 75
" 25.....	362	Harriet, near Garden	600	2 75
" 25.....	363	South Dunham, near Garden	600	2 75

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated cost of Structure.	Cost of Permit.
Ward No. 20.—Continued.				
August 28.....	380	Brooker, corner Garden.....	\$ 250	\$ 2 00
" 30.....	406	3 Brenton.....	1,800	3 10
" 30.....	455	East Prospect, near Giddings.....	5,500	8 00
" 31.....	452	W. S. Jessie, near Cedar.....	1,025	1 95
September 4.....	488	Garden and C. & P. R. R.....	3,000	20 65
" 8.....	532	Fifth avenue, near Willson.....	4,000	5 85
" 10.....	534	L. 162 Ashland.....	800	2 00
" 13.....	584	Willson, near Euclid.....	1,000	4 75
" 14.....	591	Quincy, near Baden.....	125	1 35
" 19.....	625	Quebec, near Quincy.....	300	1 50
" 25.....	684	20 Glendale.....	650	2 05
" 28.....	717	Madison, corner Quincy.....	3,500	5 20
" 28.....	719	Brenton, near Cedar.....	2,200	3 40
October 1.....	738	Harriet, near Cedar.....	600	2 10
" 1.....	739	S. Dunham, near Cedar.....	600	2 10
" 2.....	747	East Prospect, near Giddings.....	2,000	3 30
" 2.....	748	R. East Prospect, near Giddings.....	250	1 75
" 5.....	763	Montgomery, near Giddings.....	975	2 35
" 10.....	798	Baden, near Quincy.....	1,000	2 05
" 12.....	811	472 East Prospect.....	500	3 20
" 29.....	929	Baden, near Quincy.....	600	1 90
November 1.....	951	38 Fourth avenue.....	150	1 45
" 2.....	960	Parker, near Garden.....	700	2 20
" 9.....	990	East Prospect, near Madison.....	1,600	3 00
" 28.....	1,062	Euclid Place, near East Prospect.....	3,000	3 25
" 28.....	1,063	Hillburn, near Euclid.....	4,500	4 30
December 5.....	1,111	Quincy, near First.....	960	2 30
" 12.....	1,140	Garden, near Brenton.....	1,500	2 40
" 15.....	1,149	Quincy, near C. & P. Ry.....	40	1 15
" 17.....	1,157	25 Ashland.....	500	1 70
" 26.....	1,164	Quincy, near Ashland.....	1,785	3 55
" 27.....	1,168	South Dunham, near Cedar.....	450	2 10
" 27.....	1,169	Harriet, near South Dunham.....	450	2 10

WOOD AND FRAME.—Continued.

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 21.				
July 3.....	28	Hillburn, near Madison.....	\$ 3,275	\$ 6 40
" 9.....	58	Oakdale, W. S.....	3,300	4 30
" 11.....	66	Oakdale, near Quincy.....	1,400	3 12
" 16.....	100	Bolton, near Euclid.....	2,700	3 85
" 16.....	108	Streator, near Euclid.....	4,000	8 00
" 17.....	110	Vinton, near Cedar.....	2,500	3 65
" 18.....	119	Streator, near Logan.....	2,000	3 40
" 19.....	124	East Madison 824.....	4,000	5 20
" 20.....	139	South Logan, near Bolton.....	500	1 55
" 20.....	140	Bertram, near Garden.....	700	1 95
" 20.....	145	Doan, near Frank.....	1,000	2 15
" 25.....	179	South Bell, near Cedar.....	800	2 10
" 27.....	195	25 Vienna.....	150	1 50
" 30.....	205	Doan, near Cedar.....	1,700	2 85
August 4.....	230	978 Doan.....	1,100	2 45
" 13.....	273	Streator, near Bolton.....	5,000	4 70
" 17.....	303	Sayles, near Cedar.....	1,000	2 45
" 20.....	310	Oakdale, near Euclid.....	2,000	2 70
" 20.....	311	South Logan, near Cedar.....	1,200	2 45
" 20.....	312	South Bell, near Cedar.....	1,200	2 45
" 20.....	313	South Bell, near Cedar.....	1,200	2 45
" 20.....	315	Vienna, near Cedar.....	1,000	2 25
" 22.....	333	Hudson, near Norman.....	800	1 50
" 22.....	338	Sayles, near Cedar.....	1,200	2 95
" 23.....	340	Streator, near Euclid.....	2,700	4 20
" 23.....	341	Bolton, near Euclid.....	2,500	3 15
" 23.....	342	Hillburn, near East Prospect.....	1,800	3 25
" 23.....	343	Hillburn, near East Prospect.....	1,800	2 75
" 23.....	345	South Bell, near Quincy.....	1,800	2 75
" 25.....	359	Bell, corner Cedar.....	1,800	2 85
" 27.....	371	252 Edgewood.....	449	1 75
" 30.....	408	South Logan, near Oakdale.....	500	1 70
" 30.....	412	Oakdale, near Euclid.....	1,500	2 35

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 21.—Continued.				
September 3...	476	46 Vienna.....	\$ 2,000	\$ 3 70
" 3...	477	825 Stark.....	1,700	2 70
" 4...	489	South Logan, near Cedar.....	1,500	2 45
" 4...	490	South Logan, near Cedar.....	1,500	2 45
" 5...	497	39 Vienna.....	2,000	3 95
" 8...	525	Bell, near Cedar.....	1,700	2 90
" 15...	601	Cornell, near Euclid.....	2,150	4 80
" 25...	679	South Logan, near Logan.....	1,600	2 65
" 25...	680	Bell, near Cedar.....	1,200	2 30
" 25...	681	Bell, near Cedar.....	1,200	2 45
" 25...	682	Bell, near Cedar.....	1,200	2 45
" 26...	686	Bell, near Cedar.....	1,800	2 45
" 26...	687	Cedar, near Bell.....	2,000	3 05
October 2.....	744	Cedar, near Burt.....	2,000	3 15
" 2.....	745	Burt, near Cedar.....	1,800	2 90
" 4.....	755	Doan, near Frank.....	1,350	2 45
" 4.....	759	Cedar, near Streator.....	1,100	2 75
" 4.....	766	Burt, near Cedar.....	2,100	3 15
" 11.....	807	South Bell, 32.....	75	1 15
" 15.....	828	Vienna, near Cedar.....	1,800	2 95
" 16.....	852	Streator, near Cedar.....	1,650	3 00
" 18.....	869	Burt, near Cedar.....	1,550	2 80
" 19.....	882	Bertram, near Quincy.....	1,000	2 55
" 22.....	883	160 Bertram.....	500	1 95
" 23.....	892	Norman, near Doan.....	950	2 35
" 23.....	893	Sayles, near Streator.....	1,200	2 15
" 24.....	894	137 Vienna.....	800	2 40
" 24.....	899	Adelbert, near Euclid.....	5,400	5 00
" 26.....	966	Fairmount, near Cedar.....	1,800	3 55
" 27.....	910	Cedar, near Lincoln.....	2,000	2 50
" 27.....	911	Cedar, near Lincoln.....	2,000	2 50
" 27.....	912	Cedar, near Lincoln.....	2,000	2 50
" 27.....	914	East Madison, near Cedar.....	1,400	2 25

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 21.—Continued.				
October 30.....	937	Streator, near Cedar.....	\$ 1,450	\$ 2 85
“ 30.....	938	Cedar, near Bell.....	1,700	3 05
“ 31.....	941	Cedar, near Burt.....	2,000	2 45
November 1.....	956	Adelbert, near Euclid.....	4,000	5 35
“ 1.....	959	1538 Garden.....	600	1 95
“ 7.....	974	Sayles Court, near Cedar.....	1,200	2 90
“ 7.....	975	Sayles Court, near Cedar.....	1,200	2 90
“ 8.....	982	Quebec, near N. Y., P. & O. Ry.....	300	3 45
“ 9.....	991	Streator, near Cedar.....	1,600	2 60
“ 9.....	992	Bell, near Cedar.....	1,600	2 60
“ 9.....	993	Bell, near Cedar.....	1,700	2 85
“ 9.....	994	Streator Court, near Cedar.....	1,700	2 85
“ 16.....	1,024	Bertram, near Vienna.....	750	2 20
“ 19.....	1,035	Cedar, near Doan.....	1,300	3 00
“ 19.....	1,036	Halsted, near Doan.....	1,000	2 70
“ 22.....	1,056	Streator, near Cedar.....	1,600	2 45
“ 22.....	1,057	Cedar, near Streator.....	1,600	2 45
December 5.....	1,106	Burt, near Cedar.....	1,800	2 60
“ 5.....	1,108	Burt, near Cedar.....	1,800	2 60
“ 5.....	1,109	Burt, near Cedar.....	2,300	2 90
“ 6.....	1,116	Edwards, near Lincoln.....	625	1 95
“ 6.....	1,122	25 Oakdale.....	1,500	2 95
“ 11.....	1,139	Parker, near Chamber.....	600	1 65
“ 15.....	1,153	Lincoln, near Cedar.....	1,500	2 75
“ 15.....	1,154	Lincoln, near Cedar.....	1,500	2 70
“ 26.....	1,166	Streator, near Euclid.....	525	2 35
“ 28.....	1,172	L. 2 South Lincoln.....	300	2 05
Ward No. 22.				
June 25.....	7	Grant, near Herald.....	800	2 28
July 3.....	30	1607 Willson.....	3,000	4 20
“ 20.....	134	N. S. Ensign, near Willson.....	1,350	3 35
“ 20.....	144	1256 Woodland.....	300	1 20

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 22.—Continued.				
July 23.....	158	7 Halthnorth.....	\$ 500	\$ 1 80
" 23.....	159	425 Kinsman.....	800	2 25
" 27.....	192	Sherman, near Quincy.....	2,100	4 15
" 31.....	214	Quincy, near New.....	150	1 50
August 1.....	219	519 Kinsman.....	1,200	4 06
" 9.....	260	1109 Woodland.....	3,000	5 45
" 13.....	277	942 Kinsman.....	1,000	3 55
" 14.....	287	Grant, near Herald.....	900	2 25
" 17.....	304	Kinsman, near Northeast avenue.....	1,200	2 50
" 20.....	316	R. 29 Wilcutt.....	700	1 90
" 22.....	332	Giddings, near Quincy.....	525	1 80
" 22.....	334	Colfax, 126.....	800	2 35
September 1.....	446	Ensign, near Kinsman.....	1,400	2 40
" 1.....	471	East Madison, near Holton.....	600	1 60
" 3.....	478	Ensign, near Kinsman.....	1,200	2 65
" 8.....	523	17 Kinsman.....	495	1 95
" 8.....	527	Pier, near Woodland.....	925	2 05
" 8.....	529	Grand, near Kinsman.....	650	2 00
" 8.....	531	1012 and 1014 Woodland.....	350	2 10
" 17.....	610	8 Cobleigh.....	700	1 90
" 21.....	640	86 R. Kinsman.....	600	2 45
" 21.....	650	1130 Giddings.....	1,520	2 65
" 25.....	668	Kinsman, near Fenton.....	1,250	3 20
" 25.....	675	Beaver Court.....	400	1 70
" 27.....	701	Giddings, near Platt.....	1,000	2 15
" 27.....	703	54 Colfax.....	540	1 80
" 27.....	704	58 Colfax.....	450	1 80
" 27.....	705	56 Colfax.....	450	1 80
" 28.....	708	Colfax, near Kinsman.....	550	1 55
" 28.....	709	Colfax, near Kinsman.....	550	1 55
October 1.....	732	28 Wilcutt.....	125	1 30
" 4.....	758	186 Grand.....	400	1 95
" 5.....	765	128 Grand.....	500	2 25

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 22.—Continued.				
October 13....	814	9 Northeast avenue.....	\$ 500	\$ 2 10
" 15....	821	Woodland, near Brown.....	800	2 50
" 15....	829	Woodland, near Ocean.....	2,500	3 70
" 16....	850	L. 24 Madison... ..	350	1 45
" 17....	861	1142 First avenue	1,500	2 50
" 27....	919	32 Geneva.	125	1 30
" 30....	934	1609 R. Willson.....	1,500	3 00
November 1..	950	Outhwaite, near Willson.....	400	2 15
" 6..	971	583 Quincy.....	1,000	2 50
" 10..	996	108 Quincy.....	30	1 06
" 13..	1,009	Rawlings, near Herald.....	500	1 75
" 13..	1,011	Rawlings, near Herald.....	500	1 75
" 15..	1,021	Kinsman, near Fenton.....	35	2 15
" 15..	1,023	Northeast avenue, near Kinsman.....	520	1 85
" 20..	1,046	182 Quincy.....	60	1 35
" 22..	1,053	Kinsman, near Rutland.....	850	2 50
" 23..	1,059	189 Grand.....	400	1 96
" 28..	1,074	1471 Woodland.. ..	400	2 20
December 3..	1,059	Kinsman Court, near Fairbank.....	300	1 45
" 5..	1,113	9 Wagner.....	1,800	2 60
" 7..	1,124	22 Colfax.....	30	1 25
" 8..	1,133	L. 148 Florence.....	160	1 90
" 13..	1,145	Quincy, corner East Madison.....	350	2 00
" 31..	1,179	Chester, near Beaver.....	250	1 00
Ward No. 23.				
July 20.....	146	Woodland, near Bolton	2,500	4 50
" 25.....	176	12 and 13 Ambler.....	1,400	3 15
August 8....	256	Bolton, near Corwin.....	3,500	6 90
" 10.....	282	Steinway, near Woodland H.....	1,500	2 30
" 11	270	Carran, near Bolton.....	650	2 15
" 23.....	347	Woodland, near Southern.....	3,100	5 85
" 25.....	364	Quincy, corner Bolton.....	1,100	2 65

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 23.—Continued.				
August 30.....	409	Lincoln, near Quincy.....	\$ 550	\$ 2 05
" 30.....	434	Southern, near Woodland.....	800	2 10
" 31.....	451	118 Southern.....	800	2 30
September 10.	544	Woodland Hills, corner Madison	2,000	2 65
" 13.	578	Corwin, near Holton.....	1,695	3 35
" 14.	588	9 Tennison	770	2 20
" 15.	589	7 Tennison.....	770	2 20
" 15.	595	McCurdy, near Corwin.....	600	2 60
" 15.	602	L. 47 Steinway.....	225	1 85
" 22.	657	Quincy, near Southern.....	500	2 45
" 25.	690	201 Edwards.....	450	1 90
October 3.....	741	L. 73 Keys street.....	1,000	2 20
" 4.....	756	Schiller, near Holton.	650	2 10
" 8.....	778	Woodland, near Bolton.....	600	1 85
" 8. .	779	Woodland, near Bolton.....	600	1 85
" 12.....	809	Congress, near N. Woodland.....	600	1 50
" 15.....	826	Bolton, near Capital.....	1,200	2 50
" 19.....	877	Carran, near Bolton.....	125	1 30
" 31.....	943	L. 48 Bismark.....	700	2 10
" 31.....	944	L. 46 Bismark.....	700	2 10
" 31.....	945	L. 44 Bismark.....	700	2 10
" 31.....	946	L. 50 Bismark.....	700	2 10
November 13.	1,008	Vanek, near Kinsman.....	500	1 75
" 13.	1,012	Vanek, near Kinsman.....	500	1 75
" 21.	1,051	Kennedy, near Woodland Hills.....	790	2 10
" 27.	1,069	Ambler, near Woodland Hills.....	300	1 95
December 5...	1,115	Southern, near Quincy.....	1,250	2 50
" 8...	1,129	1230 Lincoln.....	1,000	3 50
" 8...	1,132	28 Yeakel.....	1,000	2 05
" 10...	1,136	East Madison, near Grand.....	1,700	3 35
" 31...	1,179	Cumberland, near Woodland Hills.....	300	1 40
" 31...	1,180	Frederick, near Bolton.....	600	1 90

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 24.				
July 9.....	53	Howe, near Glazier.....	\$ 400	\$ 1 30
" 14.....	90	Hunting, near Independence.....	350	1 55
" 20.....	142	S. Willson, near Fleet.....	450	2 00
" 24.....	166	27 Nursery.....	1,000	2 55
" 24.....	167	Bolton, near Petrie.....	900	2 30
August 1.....	218	Collister, near Broadway.....	1,500	2 40
" 2.....	223	Petrie, near Anson.....	575	2 10
" 4.....	232	Hunting, near Independence.....	500	1 65
" 6.....	239	175 Petrie.....	900	2 50
" 24.....	352	Hamm, near Broadway.....	350	1 45
" 28.....	386	Beyerle's Park.....	200	1 30
" 30.....	407	Broadway, corner Doloff.....	225	2 30
" 30.....	410	Petrie, corner Frazier.....	675	2 25
" 30.....	415	Hamm, near Broadway.....	500	1 75
" 31.....	442	33 Davies.....	25	1 10
" 31.....	443	Lester, near Galup.....	400	1 65
September 1.....	453	Cable, near Broadway.....	5,000	12 15
" 1.....	457	Hunter, near Broadway.....	800	2 00
" 1.....	458	Hunter, near Broadway.....	500	1 95
" 1.....	465	Broadway, near Davis.....	650	2 10
" 4.....	486	Hunting, near Independence.....	425	1 70
" 6.....	449	Hunting, near Beyerle Park.....	800	1 95
" 7.....	518	Beyerle Park.....	150	1 25
" 12.....	572	Bliss, near Clark.....	30	1 15
" 17.....	609	W. S. Davis, near Broadway.....	979	2 55
" 17.....	612	Orey, near Skinner.....	500	1 65
" 20.....	634	Hunting, near Kimmel.....	800	2 05
" 20.....	635	Kimmel, near Hunting.....	800	2 15
" 24.....	661	Broadway, corner Finn.....	80	1 20
" 27.....	694	R. 1361 Broadway.....	140	1 50
" 27.....	698	Otokar, near Smith.....	620	2 30
" 28.....	706	Oakwood, near Hosmer.....	300	2 15
" 28.....	713	38 Hunter.....	500	1 75

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 24.—Continued.				
October 1.....	731	Portage, near Broadway.....	\$ 400	\$ 1 65
" 2.....	743	Vivian, near Petrie.....	400	1 75
" 4.....	752	Harwood, near Beyerle.....	1,000	2 30
" 4.....	760	Broadway, near N. Y., P. & O. R. R.....	650	3 75
" 6.....	773	L. 69 Vivian.....	50	1 35
" 8.....	780	Hamm, corner Doloff.....	1,100	3 25
" 9.....	789	1494 R. Forest.....	85	1 35
" 12.....	810	R. Victor, near Philips.....	300	1 45
" 15.....	823	77 Baden.....	30	1 05
" 17.....	856	270 Jewett.....	440	1 55
" 18.....	866	Petrie, near School House.....	350	1 55
" 18.....	872	57 Hollister.....	650	2 00
" 26.....	905	Victor, near Braha.....	800	2 45
" 27.....	920	1259 Broadway.....	1,500	3 05
November 1.....	948	Smith, near Broadway.....	985	2 10
" 2.....	965	L. 119 Petrie.....	400	1 75
" 8.....	980	L. 119 Petrie.....	40	1 25
" 9.....	989	Broadway, corner Finn.....	500	1 80
" 14.....	1,014	5 Colorado.....	385	1 60
" 16.....	1,031	1232 Broadway.....	300	1 60
" 26.....	1,065	Hamm, near Doloff.....	60	1 40
" 28.....	1,084	3 Colorado.....	250	1 35
December 5.....	1,105	134 Petrie.....	1,500	2 40
" 6.....	1,123	Independence, near Holley.....	1,560	7 60
" 8.....	1,127	Margaret, near Broadway.....	75	1 45
" 31.....	1,175	33 Gallup.....	240	1 55
Ward No. 25.				
July 7.....	46	262 Fleet.....	750	1 90
" 9.....	54	7 Frances.....	800	3 13
" 10.....	59	W. S. Ackley.....	500	2 45
" 11.....	63	Frances, near Sheridau.....	1,400	2 25
" 12.....	75	W. Clinton.....	2,500	3 75

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 28.— <i>Continued.</i>				
July 12.....	76	Sheridan, near Waterman.....	\$ 590	\$ 2 00
" 12.....	77	36 Bliss.....	360	1 40
" 13.....	84	Broadway, near Union.....	3,200	8 75
" 16.....	97	317 Kenyon.....	1,425	2 35
" 24.....	173	258 Union.....	750	2 10
" 25.....	177	Tod, near Waterman.....	1,025	2 25
" 25.....	182	Broadway, near Union.....	225	1 65
" 26.....	187	122 Freeze.....	500	1 45
" 27.....	194	Union, near Tod.....	1,000	2 35
" 30.....	204	1721 and 1723 Willson.....	2,500	5 10
August 1.....	217	Tamworth, near Weimer.....	600	1 85
" 10.....	263	264 Fleet.....	600	2 10
" 13.....	272	Fleet, corner S. Willson.....	500	3 05
" 13.....	274	10 Edgewood.....	400	1 60
" 13.....	276	Herald, near Wagner.....	1,100	3 90
" 20.....	314	Amelia, near Tod.....	400	1 55
" 20.....	318	Lederer, near Tod.....	500	1 70
" 20.....	319	"A," near Tod.....	600	1 85
" 21.....	325	Orey, near Skinner.....	450	1 35
" 24.....	353	192 Petrie.....	50	1 20
" 24.....	355	Drake, near Willson.....	825	2 00
" 24.....	356	10 Mound.....	660	2 10
" 24.....	357	Drake, near Willson.....	825	2 00
" 25.....	358	Hillman, near Tod.....	800	2 40
" 27.....	372	Hillman, corner Tod.....	450	2 10
" 30.....	413	Union, near Broadway.....	600	1 95
" 30.....	414	Union, near Broadway.....	400	1 75
September 1..	464	Evergreen, near Roland.....	1,020	2 30
" 1..	458	Union, near Weight.....	900	2 35
" 1..	461	391 Weimer.....	500	2 10
" 3..	472	L. 257 Pilaster.....	200	1 35
" 3..	473	L. 52 Hamlet.....	250	1 35
" 4..	485	Gallup, near Union.....	400	1 50

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 25.—Continued.				
September 6.	502	L. 92 Fullerton.....	\$ 435	\$ 1 65
" 6.	514	Porter, near Tod.....	490	1 95
" 6.	515	Porter, near Tod.....	585	2 00
" 7.	519	Tod, near Union.....	900	2 80
" 10.	543	L. 159 Petrie.....	250	1 70
" 11.	564	Broadway, near Ackley.....	2,800	6 70
" 12.	566	44 Chambers.....	600	2 10
" 13.	575	Wagner, near Union.....	1,300	2 65
" 14.	585	Adolpha, corner Drake.....	550	1 90
" 14.	590	Union, near Broadway.....	900	2 15
" 15.	598	Petrie, near School.....	400	1 50
" 18.	621	Kinsman, near Herald.....	500	2 00
" 19.	624	Rudolph, near Broadway.....	300	1 50
" 22.	654	Kinsman, near C. & P. Ry.....	1,550	2 60
" 24.	660	Morgan al't, near Union.....	600	2 10
" 24.	665	Willson, near N. Y., P. & O. Ry.....	600	8 95
" 28.	714	Weckerling, L. 215.....	220	1 35
" 28.	715	Gallup, near Union.....	250	1 50
October 1.	733	2080 Broadway.....	3,000	6 65
" 4.	753	Kinsman, near N. Y., P. & O. Ry.....	80	1 45
" 4.	761	Tod, near Engel.....	40	1 75
" 5.	762	L. 5 Lederer.....	500	2 15
" 6.	767	Kinsman, near Berwick.....	1,300	2 55
" 11.	802	Sibaska, near Frindt.....	380	1 95
" 11.	806	Fullerton, near Tod.....	700	2 15
" 12.	812	Dolph, near Hamm.....	50	1 15
" 20.	885	Vergennes, near Fleet.....	450	1 65
" 22.	890	67 Skinner.....	360	1 80
" 24.	895	Hillman, near Broadway.....	500	1 75
" 24.	897	Kinsman, near Tod.....	1,500	3 50
" 29.	923	Vergennes, near Fleet.....	500	2 06
" 29.	932	Petrie, near School.....	400	1 50
November 1.	949	Weimer, near Heisley.....	200	1 35

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 25.—Continued.				
November 2...	962	8 Rutland.....	\$ 850	\$ 2 45
" 6...	970	Barkwill, near Petrie.....	300	1 50
" 7...	973	Newman, near Tod	27	1 10
" 8...	978	19 Temple.....	300	1 00
" 12...	1,001	22 Herbert.....	1,100	2 00
" 15...	1,022	Hines, near Broadway.....	400	1 50
" 16...	1,032	Temple, near Homewood.....	270	1 45
" 27...	1,068	"D," near Kinsman.....	250	1 55
December 13..	1,142	L. 87 Rutland.....	770	2 15
" 15..	1,152	East Madison, near Atlantic.....	400	1 70
" 15..	1,156	Palister, L. 215.....	250	1 55
" 19..	1,158	L. 103 South Logan.....	100	1 25
" 24..	1,161	26 Hamm	300	1 50
" 26..	1,165	Weimer, near Fleet.....	200	1 35
" 27..	1,170	Carpenter, near Herbert.....	1,200	2 65
" 28..	1,171	Amelia, near Tod.....	415	1 95
Ward No. 26.				
July 7.....	50	35 Rural.....	600	1 35
August 7.....	249	Union, near Wageman.....	1,150	2 45
" 13.....	281	Atlantic, near Kinsman.....	700	1 90
" 18.....	307	8 Wageman.....	300	1 55
" 27.....	373	Aetna, near Woodland Hills..	370	1 55
" 29.....	404	Madison, near Davis.....	1,400	2 30
" 31.....	444	Way, corner Sawyer.....	500	1 65
September 8..	530	2073 Way	350	1 40
" 19..	627	Philips, near Aetna.....	300	1 50
" 27..	700	East Madison, near Kinsman.....	500	1 80
October 8.....	782	Rural, corner Aetna.....	710	2 15
" 9.....	798	Stafford, near Union.....	345	1 55
November 1...	958	Madison, near Kinsman.....	500	2 00
" 13...	1,000	Atlantic, near Kinsman.....	600	1 65
December 15..	1,150	43 Atlantic.....	500	1 75
" 15..	1,151	41 Atlantic.....	500	1 75

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 27.				
June 5.....	37	Warren Road, near Asylum.....	\$ 900	\$ 2 57
" 11.....	68	Miles, near Broadway.....	7,200	12 85
" 18.....	122	Doan Alley, near Broadway.....	400	2 40
" 23.....	162	Wooland Hills, near Broadway.....	1,500	3 20
" 25.....	175	Classen, near Independence.....	1,800	3 85
October 6.....	234	Foreman, near Tod.....	450	1 80
" 6.....	235	Fremont, near Tod.....	300	1 45
" 15.....	296	Gaylord, near Woodland.....	465	1 75
" 16.....	298	Fleet, near Willson.....	450	2 10
" 18.....	126	1912 Miles.....	225	1 00
" 30.....	416	99 Kolly.....	509	1 75
" 30.....	417	129 Fremont.....	300	1 50
" 30.....	418	6 Stanislaus.....	350	1 60
" 30.....	419	68 Poland.....	350	1 60
" 30.....	420	70 Poland.....	350	1 60
" 30.....	421	28 Stanislaus.....	350	1 60
" 30.....	422	17 Stanislaus.....	550	2 15
" 30.....	423	69 Poland.....	350	1 60
" 30.....	424	4 Fremont.....	500	1 75
" 30.....	425	66 Poland.....	550	1 80
" 30.....	426	117 Poland.....	350	1 60
" 30.....	427	161 Kolly.....	350	1 60
" 30.....	428	102 Kolly.....	350	1 60
" 30.....	429	104 Kolly.....	350	1 60
" 30.....	430	55 Stanislaus.....	350	1 60
" 30.....	431	67 Poland.....	350	1 60
" 30.....	432	124 Poland.....	350	1 60
September 1.....	459	Sacramento, near Hastings.....	300	1 40
" 1.....	460	Sacramento, near Hastings.....	300	1 40
" 6.....	503	114 Posen.....	320	1 70
" 6.....	504	75 Poland.....	320	1 70
" 6.....	505	117 Poland.....	320	1 70
" 6.....	506	L. 10 Poland.....	320	1 70

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 27.— <i>Continued.</i>				
September 6.	507	L. 117 Posen	\$ 320	\$ 1 70
" 6.	508	L. 115 Poland.....	320	1 70
" 6.	509	L. 53 Stanislaus.	500	1 95
" 6.	510	L. 116 Poland.....	500	1 95
" 6.	511	76 and 77 Miles Ave.....	2,500	4 40
" 18.	616	Hosmer, near Brecksville Road.....	550	2 15
" 25.	670	Skinner, near Fremont.....	600	1 90
" 25.	677	Emmet, near Jefferson.....	900	2 10
" 29.	720	L. 23 S. Willson.....	200	1 35
" 29.	723	Fullerton, near Broadway.....	250	1 35
October 2 ...	746	Garfield, near Turney.....	500	1 55
" 15.....	824	Miles Ave., near Woodland Hills.....	2,290	3 30
" 15.....	843	L. 57 Stanislaus.....	400	1 60
" 15.....	844	L. 56 Stanislaus.....	400	1 60
" 15.....	845	L. 53 Stanislaus.....	400	1 60
" 15.....	846	L. 56 Posen	400	1 60
November 6.	972	Miles, near Arms.....	700	2 00
" 26.	1,066	Palacky, near Fremont	900	2 50
" 28.	1,073	56 Fremont	400	1 60
December 4...	1,098	841 Tod	485	1 75
Ward No. 28.				
July 16.....	186	162 and 164 Pearl.....	2,500	6 85
August 21.....	324	Old River Bed, near Hanover.....	4,500	3 45
September 21.	648	63 Mulberry.....	800	1 50
November 1...	957	806 Spruce	500	2 00
" 16...	1,026	300 Washington.....	800	2 20
Ward No. 29.				
September 21.	639	Perkins Court, near Washington.....	600	1 80
October 1.....	729	23 Carran.....	700	2 15
November 30.	1,087	Clinton, near Duane.....	5,000	8 15

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 30.				
July 16.....	99	158 Herman.....	\$ 1,550	\$ 2 95
September 15.	608	56 Scott.....	1,500	2 30
October 10....	801	594 Detroit.....	1,638	3 70
“ 18....	868	Weddel, near Old River Bed.....	250	2 10
November 1...	954	455 Franklin.....	7,000	6 25
“ 2...	963	L. 446 Cass.....	450	1 60
“ 2...	964	L. 447 Cass.....	450	1 60
“ 16...	1,025	St. Paul, near River Bed.....	1,800	10 60
December 14..	1,148	Old River street, near St. Paul.....	9,000	19 00
Ward No. 31.				
July 11.....	65	122 Root.....	1,500	3 95
“ 23.....	164	182 Birch.....	800	2 30
August 8.....	252	Harbor, near Lorain.....	1,500	2 95
“ 16.....	299	118 R. Harbor.....	550	1 70
September 12.	574	Root, near Bridge.....	2,000	3 15
November 1...	955	258 Liberty.....	960	2 25
December 6...	1,117	R. 89 Birch.....	688	2 35
Ward No. 32.				
August 1.....	220	290 Dare.....	800	2 20
“ 10.....	265	1485 Lorain.....	1,900	3 55
“ 27.....	375	Waverly, near Bayne.....	750	2 40
“ 30.....	440	309 Waverly	350	2 35
“ 31.....	450	111 Scott.....	750	2 10
September 12.	571	42 Colgate	1,500	2 75
“ 18.	623	Berg, near Gordon.....	600	1 95
“ 20.	632	Gordon, near Scott alley.....	800	2 05
October 29....	924	50 Madison.....	65	1 40
November 22..	1,055	71 Bridge.....	700	2 35
Ward No. 33.				
July 3.....	31	Colahan, near Abbey.....	1,850	3 90
“ 19.....	126	767 Lorain	3,500	6 25

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 33.—Continued.				
September 13.	579	Carroll, near York.....	\$ 250	\$ 1 20
November 26.	1,062	757 R. Lorain.....	200	1 60
Ward No. 34.				
August 30.....	433	110 Franklin.....	400	1 80
" 30.....	436	481 West River.....	750	1 90
September 1.....	463	Brook, corner Lorain.....	475	1 65
" 6.....	500	Columbus, corner Willey.....	350	9 65
" 17.....	611	291 Willey.....	802	2 40
October 5.....	768	Epson's Court.....	250	1 30
" 16.....	855	Columbus, near Abbey.....	2,000	8 00
Ward No. 35.				
July 23.....	161	388 Waverly.....	1,200	2 40
" 31.....	210	28 Willet.....	550	1 90
August 29.....	401	Monroe, corner Penn.....	2,900	4 30
September 10.....	545	Chatham, corner Pearl.....	470	1 45
" 12.....	573	820 Lorain.....	200	2 00
" 25.....	689	Pearl, near C. C. C. & I. R. R.....	300	2 20
December 3.....	1,097	L. 17 Freas.....	500	2 25
Ward No. 36.				
July 20.....	133	Lorain, near Ridge Road.....	3,270	7 15
" 30.....	206	Lorain, near Waverly.....	500	2 55
August 15.....	293	967 Lorain.....	2,000	2 80
" 22.....	336	Lorain, near Geib.....	750	2 80
" 27.....	367	Grace, near Lorain.....	300	1 90
" 28.....	389	402 Harbor.....	1,000	2 25
" 28.....	390	Freas, near Mechanic.....	900	2 20
" 30.....	439	1432 Lorain.....	1,000	4 60
September 1.....	462	Harbor, near Lorain.....	1,200	2 85
" 3.....	474	1083 Lorain.....	2,000	8 90
" 10.....	536	L. 3 Wine.....	400	1 65
" 10.....	537	Gordon Court, near Clark.....	450	1 65

REPORT OF THE INSPECTOR OF BUILDINGS.

III

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 36.—Continued.				
September 10.	538	Gordon Court, near Clark.....	\$ 450	\$ 1 65
" 10.	539	Gordon Court, near Clark.....	450	1 65
" 10.	540	Gordon Court, near Clark.....	450	1 65
" 10.	541	Gordon Court, near Clark.....	450	1 65
" 10.	551	Lorain, corner Higgins.....	1,700	3 80
" 17.	608	L. 295 Conrad.....	300	1 55
" 17.	613	L. 26 Conrad.....	525	1 75
" 20.	631	Bartlett Court, near Ravine.....	400	1 55
" 24.	663	Bartlett Court, near Harbor.....	800	2 15
" 24.	664	Bartlett Court, near Harbor.....	600	1 85
" 24.	666	156½ Root.....	400	1 45
" 24.	672	299 Conrad.....	354	1 50
October 6.....	772	Alum, near Lorain.....	400	1 90
" 10.....	795	L. 8 Ravine.....	800	2 30
" 11.....	808	41 Grace.....	575	2 15
" 13.....	818	43 Harbor.....	900	2 80
November 10.	997	Higgins, near Conrad.....	200	1 50
" 13.	1,004	Alum, near Clark.....	265	1 30
" 13.	1,010	Grace, near Geib.....	500	1 75
December 3.....	1,094	Bartlett Court, near Buckley.....	500	1 70
" 10.....	1,135	22 Conrad.....	600	2 35
Ward No. 37.				
July 6.....	42	Fremont, near Jefferson.....	700	
" 7.....	48	Cologne, near Scranton.....	300	1 3
" 7.....	51	Cologne, near Scranton.....	325	1 26
" 9.....	56	180 University.....	1,380	2 74
" 17.....	111	36 Cologne.....	250	1 25
" 30.....	203	410 Central Way.....	1,000	11 50
August 7.....	246	Emmet, corner Jefferson.....	550	1 65
" 9.....	257	66 Jennings.....	12,000	7 50
" 11.....	269	Central Way, near C. V. Ry.....	5,600	23 55
" 28.....	391	Clarence, near Lane.....	300	1 70

WOOD AND FRAME.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 39.—Continued.				
August 29.....	402	Gustav Court, near Pearl.....	\$ 725	\$ 2 15
" 30.....	437	1033 Pearl.....	30	1 20
" 30.....	438	Kentucky, near Vermont.....	500	1 55
September 3..	482	Wade avenue, near Hitchcock.....	450	2 20
" 11..	561	Sackett, near Pearl.....	800	2 00
" 12..	570	Empress, near Pearl.....	400	2 25
" 20..	637	323 Walton.....	500	1 95
" 25..	669	Newark, near Rhodes.....	500	1 65
" 27..	692	S. L. 263 R. Rhodes.....	1,020	2 30
" 27..	696	25 Pollock.....	450	2 15
" 27..	697	27 Pollock.....	450	2 15
" 29..	725	Pearl, corner Meyer.....	2,800	4 70
October 9.....	788	Hitchcock, near Clark.....	250	1 55
" 11.....	805	Second, near Pearl.....	300	1 55
" 16.....	848	41 Rhodes.....	400	3 25
" 18.....	876	L. 7 Augustof.....	900	2 40
November 8..	935	L. 1 Erin.....	500	1 95
" 8..	986	L. 2 Erin.....	500	1 95
" 8..	987	L. 3 Erin.....	500	1 95
" 16..	1,030	185 Seymour.....	750	2 10
December 5..	1,103	241 R. Louis.....	60	1 20
" 26..	1,162	126 Louis.....	250	1 60
Ward No. 40.				
July 3.....	27	Clark, near Milford.....	1,445	3 38
" 16.....	104	Clark, near Cemetery.....	2,500	7 30
" 20.....	143	Selden, near Burton.....	275	1 60
" 24.....	168	Conrad, near Hegan.....	800	2 20
" 31.....	209	Milford, near Gauge.....	150	2 00
August 15.....	297	48½ Hartford.....	375	1 40
" 25.....	361	23 Poplar.....	800	1 80
" 27.....	370	Clark, near Gilbert.....	1,217	3 45
" 29.....	393	43 Milford.....	570	2 15
" 29.....	397	L. 489 Elk.....	950	2 35

WOOD AND FRAME.—*Concluded.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 40.—Continued.				
September 10.	547	1002 Clark.....	\$ 100	\$ 1 95
" 10.	558	18 Kidder.....	500	2 10
" 19.	629	124 Swiss.....	1,000	2 40
" 21.	641	L. 54 Clark.....	700	2 00
" 21.	556	Isabella, near Oakley.....	500	1 70
" 25.	673	L. 1044 Clark.....	1,100	2 70
" 28.	711	100 Newark.....	1,100	2 65
" 28.	712	418 Isabella.....	485	1 85
" 28.	716	101 Milford.....	1,100	3 30
" 29.	721	69 Selden.....	540	1 85
October 1.....	727	L. 47 Selden.....	395	1 65
" 8.....	777	50 Selden.....	850	2 30
" 10.....	779	153 Gauge.....	450	1 70
" 18.....	871	41 Milford.....	200	1 35
" 19.....	883	N. S. Howlett, near Burton.....	785	1 95
" 24.....	896	Gauge, near Storer.....	700	1 85
" 25.....	900	Gauge, near Storer.....	350	1 50
" 27.....	908	56 Poplar.....	475	1 75
" 27.....	909	51 Selden.....	750	2 80
" 29.....	930	48 Trent.....	900	3 10
" 29.....	931	Burton, near Robert.....	1,400	3 50
November 2....	931	Clark, near Brooklyn.....	75	1 25
" 3....	966	Robert, near Burton.....	800	2 05
" 13....	1,005	Poplar, near Clark.....	540	1 80
" 27....	1,072	Milford, near Clark.....	400	1 55
December 1....	1,090	93 Selden.....	550	2 40
" 4....	1,099	Isabella, near Clark.....	1,700	5 00
" 7....	1,125	Chestnut Ridge, near Dennison.....	1,200	3 30
" 11....	1,137	152 Selden.....	500	2 40
" 11....	1,138	142 Ionis.....	290	1 70
" 26....	1,163	Clark, corner Swiss.....	100	1 30
" 31....	1,180	Schneider, corner Chestnut Ridge.....	400	2 00
" 31....	1,183	Selden, near Clark.....	500	2 35

ADDITIONS AND ALTERATIONS.

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 1.				
June 30.....	5	Central Viaduct, near Hill.....	\$ 325 00	\$ 1 00
July 5.....	6	21 Ohio.....	600 00	1 00
" 14.....	33	36 Berg.....	75 00	1 00
" 17.....	44	Berg, near Cross.....	50 00	1 00
" 26.....	71	136 Woodland.....	175 00	1 00
August 3.....	95	153-155 Broadway.....	600 00	1 00
" 20.....	134	35 Broadway.....	75 00	1 00
October 3.....	279	Woodland, corner Erie.....	200 00	1 00
" 11.....	309	17 Race.....	45 00	1 00
December 3.....	413	117 Broadway.....	1,400 00	3 00
" 27.....	439	Stone's Levee, near Central Way.....	600 00	
Ward No. 2.				
July 9.....	55	124 Champlain.....	310 00	1 00
" 6.....	13	Walnut, near Erie.....	1,100 00	3 00
" 11.....	22	Champlain, near Ontario.....	2,500 00	4 00
" 11.....	23	Michigan, near Seneca.....	500 00	1 00
" 30.....	81	Euclid, near Bond.....	300 00	1 00
August 13.....	117	385 Bond.....	250 00	1 00
" 14.....	120	22 Walnut.....	700 00	1 00
" 25.....	148	244 Erie.....	8,000 00	17 00
September 7.....	178	24-28 Euclid.....	1,500 00	3 00
" 28.....	254	154 Seneca.....	150 00	1 00
October 2.....	273	Middle, near High.....	600 00	1 00
" 15.....	318	100 Euclid.....	100 00	1 00
" 24.....	338	119 Euclid.....	40 00	1 00
" 24.....	341	32 and 34 Chestnut.....	1,000 00	3 00
November 9.....	373	242 Superior.....	700 00	1 00
" 13.....	383	127 Champlain.....	50 00	1 00
" 14.....	389	100 Euclid.....	500 00	1 00
December 18.....	431	12-18 Middle.....	1,600 00	3 00
Ward No. 3.				
July 23.....	60	Frankfort, near Seneca.....	60 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 3.—Continued.				
July 24.....	65	Bank, near Superior.....	\$ 340 00	\$ 1 00
" 26.....	69	Seneca, near Frankfort.....	750 00	1 00
August 9.....	112	Seneca, near Lake.....	400 00	1 00
" 20.....	130	66-68 River.....	125 00	1 00
September 6.....	176	Michigan, corner Seneca.....	12 00	1 00
" 13.....	192	71 Seneca.....	500 00	1 00
October 4.....	281	Columbus, near Winter.....	4,300 00	9 00
" 17.....	326	Michigan, corner Canal.....	30 00	1 00
" 23.....	331	102 Superior.....	1,800 00	3 00
" 27.....	348	41 Michigan.....	1,400 00	3 00
" 29.....	353	Michigan, corner Seneca.....	1,200 00	3 00
" 29.....	355	174 Superior.....	350 00	1 00
November 2.....	360	Frankfort, near Water.....	800 00	1 00
" 10.....	376	172 Columbus.....	2,000 00	5 00
" 13.....	386	119 Bank.....	1,100 00	3 00
" 14.....	388	167 River.....	833 00	1 00
December 31.....	446	Foot St. Clair, near River.....	350 00	1 00
Ward No. 4.				
July 30.....	87	110 Erie.....	350 00	1 00
October 2.....	275	96 and 98 Bond.....	300 00	1
Ward No. 5.				
August 22.....	139	597 Payne.....	100 00	1 00
" 27.....	150	Walnut, near Muirson.....	85 00	1 00
" 28.....	152	79 Oregon.....	300 00	1 00
" 29.....	156	83 Oregon.....	418 00	1 00
September 17.....	199	Hamilton, corner Dodge.....	25 00	1 00
" 17.....	200	255 Oregon.....	95 00	1 00
" 25.....	244	130 Oregon.....	100 00	1 00
October 1.....	280	100 Walnut.....	40 00	1 00
Ward No. 6.				
July 16.....	16	16 Jessie.....	250 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 6.—Continued.				
July 28.....	78	185 Payne.....	\$ 500 00	\$ 1 00
September 10	183	862 Payne.....	75 00	1 00
“ 15	196	Hazard, near Payne.....	300 00	1 00
“ 20	218	18 Everett.....	250 00	1 00
“ 25	243	28 Waring.....	200 00	1 00
October 2.....	268	137 Waring.....	175 00	1 00
“ 22.....	335	Payne, near Sterling..	500 00	1 00
Ward No. 7.				
July 9.....	18	975 Payne.....	350 00	1 00
“ 12.....	26	509 Case.....	800 00	1 00
“ 12.....	28	384 Kirtland	700 00	1 00
“ 20.....	54	Payne, near McHenry	500 00	1 00
“ 27.....	73	205 Wason.....	300 00	1 00
August 4.....	99	109 Clifton.....	300 00	1 00
September 4..	170	210 McHenry.....	450 00	1 00
“ 10..	182	431 Belden.....	840 00	1 00
“ 18..	207	1025 Payne.....	230 00	1 00
“ 18..	208	196 Hoadley.....	565 00	1 00
“ 22..	229	29 Margaret.....	250 00	1 00
“ 24..	232	115 Clifton.....	83 00	1 00
“ 25..	239	McHenry, near Payne.....	180 00	1 00
“ 25..	253	349 Hoadley.....	75 00	1 00
October 8.....	300	1057 Superior.....	200 00	1 00
“ 13.....	315	81 Mason.....	150 00	1 00
“ 20.....	339	973 Superior.....	250 00	1 00
November 19	393	1048 Superior.....	75 00	1 00
“ 28	406	1151 Payne.....	150 00	1 00
December 15..	424	St. Clair, near Diamond Park.....	10 00	.....
Ward No. 8.				
July 13.....	30	672 St. Clair.....	50 00	1 00
“ 14.....	35	388 Hamilton.....	50 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 8.—Continued.				
July 31.....	85	109 Alabama.....	\$ 500 00	\$ 1 00
" 31.....	86	465 St. Clair.....	250 00	1 00
August 2.....	91	453 Hamilton.....	650 00	1 00
" 22.....	138	422 Lake.....	100 00	1 00
" 24.....	144	471 St. Clair.....	157 00	1 00
" 24.....	153	16 Delaware.....	100 00	1 00
September 17.....	205	306 Hamilton.....	985 00	1 00
October 25.....	344	460 Lake.....	500 00	1 00
Ward No. 9.				
July 10.....	19	40 Lyman.....	50 00	1 00
August 15.....	121	Lake, near Lawrence.....	1,500 00	3 00
September 17.....	203	94 Lawrence.....	125 00	1 00
" 17.....	204	858 Payne.....	90 00	1 00
" 20.....	219	Wason, near King.....	150 00	1 00
" 21.....	225	74 Hoadley.....	900 00	1 00
" 24.....	234	814 St. Clair.....	500 00	1 00
" 25.....	242	Alabama, near Lake.....	9,000 00	19 00
October 1.....	266	795 Lake.....	75 00	1 00
" 4.....	283	Armitage, near St. Clair.....	350 00	1 00
" 5.....	291	Case, near Lake.....	2,500 00	5 00
" 10.....	305	46 King.....	545 00	1 00
" 16.....	324	Hoadley, near St. Clair.....	175 00	1 00
" 25.....	346	58 McHenry.....	400 00	1 00
" 30.....	357	91 Lawrence.....	200 00	1 00
" 31.....	358	97 Sackett.....	175 00	1 00
" 31.....	359	Lake, near Lawrence.....	2,000 00	5 00
December 26.....	436	975 Superior.....	300 00	1 00
" 28.....	442	King, near Wason.....	500 00	1 00
Ward No. 10.				
July 9.....	16	140 Bolivar.....	400 00	1 00
" 18.....	47	285 Prospect.....	150 00	1 00

ADDITIONS AND ALTERATIONS.—Continued.

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 10.—Continued.				
August 6.....	100	45 Webster.....	\$ 100 00	\$ 1 00
November 12	380	322 Prospect.....	100 00	1 00
Ward No. 11.				
November 7...	367	47 Scovill.....	425 00	1 00
Ward No. 12.				
July 3.....	9	244 Cedar.....	725 00	1 00
" 9.....	17	37 Cedar.....	946 00	1 00
" 19.....	52	633 Prospect.....	1,300 00	5 00
August 4.....	98	32 Cedar.....	15 00	1 00
" 25.....	147	Greenwood, near Garden.	1,250 00	3 00
" 28.....	155	132 Sterling.....	500 00	1 00
October 1.....	264	863 Euclid.....	275 00	1 00
" 3.....	277	23½ Calvert.....	65 00	1 00
" 17.....	329	215 Garden.....	50 00	1 00
December 13..	421	236 Garden.....	50 00	1 00
Ward No. 13.				
July 27.....	72	298 Garden.....	125 00	1 00
" 27.....	75	106 Greenwood.....	15 00	1 00
" 31.....	88	106 Greenwood.....	100 00	1 00
September 6..	175	411 Scovill.....	2,200 00	5 00
" 19..	214	409 Scovill.....	1,700 00	3 00
October 3.....	278	R. 23 Hackman.....	160 00	1 00
" 5.....	288	113 Beech.....	600 00	1 00
" 11.....	311	Harper, near Scovill.....	150 00	1 00
" 16.....	323	44 Linden.....	500 00	1 00
November 12	379	99 Greenwood.....	150 00	1 00
" 27	402	Scovill, corner Putnam.....	100 00	1 00
Ward No. 14.				
July 17.....	45	850 Case.....	2,000 00	5 00
" 30.....	79	84 Arlington.....	500 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 14.—Continued.				
July 31.....	84	29 William.....	\$ 1,500 00	\$ 5 00
September 6...	154	817 Case.....	350 00	1 00
" 19...	211	156 Kennard.....	200 00	1 00
" 19...	213	156 Kennard.....	200 00	1 00
October 2.....	274	1144 Willson.....	600 00	1 00
" 4.....	284	Willson, near Cedar.....	015 00	1 00
" 6.....	283	Cedar, near Forest.....	1,000 00	3 00
Ward No. 15.				
July 2.....	8	40 Henry.....	70 00	1 00
" 14.....	32	450 Kennard.....	250 00	1 00
" 25.....	66	438 Kennard.....	700 00	1 00
" 25.....	82	114 Linden.....	600 00	1 00
September 1...	163	481 Sterling.....	750 00	1 00
" 19...	210	126 Osborn.....	100 00	1 00
October 17....	328	442 Kennard.....	800 00	1 00
November 5...	361	33 Portland.....	400 00	1 00
Ward No. 16.				
August 6.....	102	225 Orange.....	600 00	1 00
September 2...	188	Broadway, near Irving.....	500 00	1 00
" 22.....	226	59 Orange.....	370 00	1 00
October 1.....	282	300 Woodland.....	600 00	1 00
" 4.....	282	186 Orange.....	200 00	1 00
" 9.....	301	346 Woodland.....	50 00	1 00
" 12.....	314	Broadway, near Irving.....	100 00	1 00
Ward No. 17.				
July 16.....	38	Case, near Croton.....	150 00	1 00
" 19.....	48	67 Davis Court.....	550 00	1 00
" 25.....	67	75 Croton.....	425 00	1 00
" 27.....	74	70 Burwell.....	16 00	1 00
" 28.....	77	46 Mayflower.....	700 00	1 00
August 6.....	101	5 Sawtell Court.....	1,000 00	2 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 17.—Continued.				
August 20.....	128	722 Woodland	\$1,100 00	\$ 3 00
September 7..	179	12 Beecher Ave.....	100 00	1 00
“ 11..	185	181 Croton.....	100 00	1 00
“ 12..	189	28 Belmont.....	300 00	1 00
“ 12..	190	145 Croton.....	50 00	1 00
October 10....	302	1358 Forest.....	775 00	1 00
“ 15....	316	572 Orange.....	100 00	1 00
“ 16....	319	Forest, near N. Y., C. & St. L.....	450 00	1 00
“ 19....	333	56 Humboldt.....	100 00	1 00
November 23	396	Croton, corner Case.....	100 00	1 00
“ 23	397	Davis Court, near Sawtell.....	1,500 00	3 00
Ward No. 18.				
July 13.....	31	Clara, near White.....	565 00	1 00
“ 13.....	70	Willson, corner Euclid.....	30 00	1 00
August 4.....	97	36 Sixth Avenue.....	75 00	1 00
“ 17.....	125	45 Clara.....	300 00	1 00
September 1..	164	Dent, near White.....	945 00	1 00
“ 4..	169	Willson, near Dibble.....	700 00	1 00
“ 13..	191	L. 29 Lyon	450 00	1 00
“ 22..	227	4 Varian.....	525 00	1 00
“ 24..	245	St. Clair, corner Lyon.....	700 00	1 00
“ 27..	252	611 E. Madison.....	200 00	1 00
October 15....	317	1486 Euclid.....	125 00	1 00
November 28..	407	1329 Lexington.....	175 00	1 00
December 7...	417	96 Astor.....	300 00	1 00
“ 17...	425	Willson, corner Sixth Avenue.....	2,000 00	5 00
“ 26...	435	St. Clair, corner Bliss.....	50 00	1 00
Ward No. 19.				
August 23....	140	Lockyear, near Superior	340 00	1 00
“ 27....	149	761 N. Logan.....	1,200 00	3 00
September 3..	166	Hough P., near Holt.....	700 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 19.—Continued.				
September 3.....	167	Hough P., near Holt.....	\$ 700 00	\$ 1 00
" 6.....	177	Ansel, near St. Clair.....	100 00	1 00
" 24.....	237	O'Conner, near Superior.....	250 00	1 00
October 19.....	332	1492 Euclid.....	500 00	1 00
" 27.....	336	1419 St. Clair.....	40 00	1 00
" 27.....	350	72 Hough.....	236 00	1 00
Ward No. 20.				
June 29.....	4	Quincy, near Baden.....	50 00	1 00
July 12.....	24	Garden, near Lodge.....	200 00	1 00
" 12.....	25	1257 Garden.....	300 00	1 00
August 8.....	110	Platt, near E. Madison.....	4,500 00	9 00
" 20.....	131	Bolton, near Cedar.....	900 00	1 00
" 20.....	132	C. & P. R. R. Crossing, E. Prospect.....	2,000 00	5 00
" 23.....	141	Brenton, near Cedar.....	275 00	1 00
September 12.....	187	47 Brenton.....	200 00	1 00
" 20.....	220	19 Morse.....	350 00	1 00
October 8.....	297	Lussenden, near Cedar.....	100 00	1 00
November 5.....	362	22 Richland.....	100 00	1 00
" 15.....	392	51 Jessie.....	400 00	1 00
" 28.....	406	1364 Garden.....	150 00	1 00
December 17.....	426	14 Craw Road.....	500 00	1 00
" 27.....	438	Quincy, near C. & P. Ry.....	100 00	.....
Ward No. 21.				
July 17.....	43	9 Continental.....	400 00	1 00
" 19.....	51	1204 Cedar.....	2,000 00	5 00
August 2.....	93	13 Halsey.....	75 00	1 00
" 20.....	135	89 S. Bell.....	275 00	1 00
September 19.....	215	Cedar, corner Fairmount.....	75 00	1 00
" 25.....	241	919 Bolton.....	100 00	1 00
October 10.....	306	220 Streator.....	325 00	1 00
" 27.....	351	863 and 865 Bell.....	140 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 21.—Continued.				
November 21..	395	22 Halsey.....	\$ 100 00	\$ 1 00
" 26..	399	Highland, near Stearn.....	450 00	1 00
December 29..	443	Lincoln, near Garden.....	300 00	1 00
Ward No. 22.				
July 5.....	17	108 Quincy.....	400 00	1 00
" 14.....	36	12 Goldsmith.....	160 00	1 00
September 14	193	84 Stanton.....	300 00	1 00
" 28	228	1184 First Ave.....	100 00	1 00
" 24	236	Holton, corner Leon.....	500 00	1 00
" 26	249	14 Wilcutt.....	900 00	1 00
October 8.....	294	18 Pier.....	300 00	1 00
" 8.....	298	11 Griswold.....	125 00	1 00
" 18.....	331	95 Brenton.....	240 00	1 00
November 5..	363	291 and 293 Quincy.....	80 00	1 00
Ward No. 23.				
June 29.....	3	1637 N. Woodland.....	800 00	1 00
August 7.....	106	9 Key.....	300 00	1 00
September 21	224	Rockland, near Kinsman.....	1,000 00	1 00
October 2.....	276	Holton, near Woodland Hills.....	100 00	1 00
December 6..	416	989 Kinsman.....	100 00	1 00
Ward No. 24.				
July 16.....	37	Champa, near Broadway.....	330 00	1 00
" 16.....	42	16 House.....	250 00	1 00
" 23.....	58	Hector, near McBride.....	500 00	1 00
" 24.....	62	Vivian, near Ballou.....	250 00	1 00
August 6.....	103	Bollou, near Vivian.....	250 00	1 00
" 9.....	113	14 Lester.....	650 00	1 00
" 27.....	151	95 Dolloff.....	600 00	1 00
" 31.....	160	80 Davis.....	75 00	1 00
" 31.....	161	Forest, corner Trumbull.....	130 00	1 00
" 31.....	162	Barkwell, corner Petrie.....	400 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 24.—Continued.				
September 5.	172	1236 R. Broadway.....	\$ 350 00	\$ 1 00
" 18.	206	Independence, near Sykora.....	65 00	1 00
" 19.	216	R. 63 Warren.....	95 00	1 00
" 26.	246	15 Rockett.....	120 00	1 00
October 2.....	269	1640 Broadway.....	120 00	1 00
" 2.....	272	Broadway, near Willson.....	200 00	1 00
" 6.....	292	1157 Broadway.....	100 00	1 00
" 8.....	296	85 Lester.....	100 00	1 00
" 10.....	307	3 Greenleaf.....	40 00	1 00
" 26.....	344	L. 16 Dille.....	40 00	1 00
November 8.....	371	490 Forest.....	60 00	1 00
" 8.....	372	29 Jewett.....	250 00	1 00
" 14.....	387	33 Warren.....	25 00	1 00
" 15.....	390	38 Guy.....	200 00	1 00
" 15.....	391	18 Warren.....	25 00	1 00
December 10.	418	21 Douse.....	300 00	1 00
" 10.....	419	Broadway, corner Warren.....	75 00	1 00
" 31.....	444	Doloff, near Hamm.....	170 00	1 00
" 31.....	445	Barom, near Nursery.....	50 00	1 00
Ward No. 25.				
July 23.....	57	Spafford, near Fullerton.....	250 00	1 00
" 24.....	61	9 Guy.....	340 00	1 00
" 24.....	64	Willson, near N. Y., C. & St. L.....	50 00	1 00
" 31.....	89	592 Kinsman.....	15 00	1 00
August 11.....	115	18 Forman.....	1,000 00	3 00
" 14.....	119	41 Wabash.....	485 00	1 00
" 23.....	142	52 Homewood.....	400 00	1 00
" 30.....	158	1336 Herald.....	125 00	1 00
" 30.....	159	2 Cowan.....	500 00	1 00
September 10	181	Alexander, corner Franze.....	740 00	1 00
" 15.....	195	Gallup, corner Consul.....	160 00	1 00
" 19.....	212	Homewood, near Union.....	60 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 25.—Continued.				
September 20	222	16 Wabash.....	60 00	1 00
October 1.....	263	300 Kinsman.....	25 00	1 00
“ 1.....	265	1656 Broadway.....	200 00	1 00
“ 4.....	280	34 Forman.....	300 00	1 00
“ 5.....	287	2287 Broadway.....	40 00	1 00
“ 11.....	312	121 Wheatland... ..	205 00	1 00
“ 24.....	340	Union, near Broadway.....	60 00	1 00
November 7..	364	70 Hamm.....	100 00	1 00
“ 8..	368	Broadway, near Willson.....	475 00	1 00
“ 8..	370	1656 Broadway.....	1,400 00	3 00
“ 10..	377	8 Avery.....	700 00	1 00
“ 13..	378	2155 Cottage.....	55 00	1 00
“ 13..	385	2115 Union.....	70 00	1 00
“ 26..	400	9 Hillman.....	100 00	1 00
“ 27..	403	Tod, near Fleet.....	160 00	1 00
December 1...	409	8 Chambers.....	138 00	1 00
“ 13...	420	L. 24 Rutland.....	150 00	1 00
“ 15...	423	1666 Broadway.....	400 00	1 00
“ 19...	432	Willson, corner McBride.....	75 00	1 00
“ 28...	440	1824 Broadway.....	35 00	1 00
Ward No. 26.				
July 7.....	15	36 Rural.....	320 00	1 00
September 20	223	Broadway Y. M. C. A.....	200 00	1 00
“ 22	230	2417 Union.....	117 00	1 00
October 8.....	209	Haddock, near Woodland.....	264 00	1 00
“ 16.....	325	2025 Elizabeth.....	100 00	1 00
“ 29.....	354	21 Fay.....	150 00	1 00
“ 30.....	356	Wagman Avenue, near Union.....	150 00	1 00
Ward No. 27.				
July 30.....	80	329 Breckenridge.....	250 00	1 00
August 6.....	118	255 Brecksville R.....	100 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 27.—Continued.				
August 28.....	154	L. 41 Miles.....	\$ 75 00	\$ 1 00
September 10	184	2728 Broadway.....	600 00	1 00
" 27	251	32 Fremont.....	150 00	1 00
November 26	401	2540 Broadway.....	450 00	No charges.
December 5...	414	Woodland Hills, corner Gaylord.....	200 00	1 00
Ward No. 28.				
August 7.....	107	Washington, near Vermont.....	700 00	1 00
September 4...	168	North, near Hanover	100 00	1 00
" 8...	180	Center, corner Spencer.....	1,200 00	5 00
October 10.....	303	32 Noyes.....	65 00	1 00
" 11.....	306	28 Main.....	300 00	1 00
December 18...	430	Spruce, near Elm.....	6,000 00	13 00
Ward No. 29.				
August 6.....	104	75 Clinton.....	1,534 00	3 00
" 6.....	105	213, 215 and 217 Detroit.....	200 00	1 00
" 11.....	116	Detroit, corner Hanover.....	500 00	1 00
September 17	197	474 Detroit.....	550 00	1 00
" 25	240	403 Detroit.....	100 00	1 00
" 29	257	Hanover, corner Detroit.....	700 00	1 00
October 16.....	321	196 Clinton.....	500 00	1 00
" 16.....	322	217 and 219 Detroit.....	600 00	1 00
" 18.....	330	Detroit, near Hanover	250 00	1 00
Ward No. 30.				
August 2.....	92	96 Herman.....	75 00	1 00
" 7.....	108	359 Franklin.....	250 00	1 00
October 8.....	295	19 Twenty-third Avenue.....	700 00	1 00
November 13	381	Detroit, near Taylor	980 00	1 00
Ward No. 31.				
July 23.....	59	58 Liberty.....	575 00	1 00
August 3.....	96	147 Liberty	10 00	1 00

ADDITIONS AND ALTERATIONS.—Continued.

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 32.				
July 21.....	55	897 Lorain.....	\$ 75 00	\$ 1 00
August 15.....	124	89 Colgate.....	300 00	1 00
December 1...	410	Lorain, near Chestnut Ridge.....	300 00	1 00
" 21.....	434	274 Dare.....	75 00	1 00
Ward No. 33.				
July 5.....	10	Whitman, near Kentucky.....	800 00	1 00
August 3.....	94	Bridge, corner Pearl.....	2,600 00	7 00
" 21.....	196	523 Pearl.....	100 00	1 00
September 17	202	13 Jersey.....	65 00	1 00
October 12.....	313	Mabel, corner Fulton.....	150 00	1 00
" 25.....	343	37½ Fulton.....	240 00	1 00
December 3...	412	5521 Pearl.....	50 00	1 00
" 26.....	437	873 Lorain.....	60 00	1 00
Ward No. 34.				
July 19.....	30	22 Bradford.....	220 00	1 00
August 2.....	60	252 Willeyville Alt.....	300 00	1 00
" 21.....	137	30 Brock.....	300 00	1 00
September 14	194	41 Brock.....	250 00	1 00
" 17.....	201	55 Hurd.....	30 00	1 00
" 18.....	201	Walworth Run, near Willey.....	200 00	1 00
" 26.....	248	57 Ward Street.....	150 00	1 00
October 5.....	290	143 Columbus.....	450 00	1 00
" 25.....	345	Moore, corner Hurd.....	100 00	1 00
November 8...	369	264 Columbus.....	800 00	1 00
Ward No. 35.				
July 7.....	14	124 York.....	600 00	1 00
" 10.....	20	100 Chatham.....	60 00	1 00
" 13.....	29	123 Monroe.....	650 00	1 00
" 14.....	34	709 Pearl.....	800 00	1 00
" 23.....	56	Ford, near Monroe.....	215 00	1 00
August 15.....	123	40 Green.....	368 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Application.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 35.—Continued.				
August 29.....	157	Lorain, near Burton.....	\$ 600 00	\$ 1 00
September 17.....	198	Lorain, near Mechanic.....	400 00	1 00
October 2.....	270	49 Ward Street.....	150 00	1 00
" 2.....	271	142 Freas.....	150 00	1 00
" 27.....	349	667 Pearl.....	35 00	1 00
Ward No. 36.				
July 24.....	63	Myrtle, near Cook.....	460 00	1 00
" 27.....	76	19 Burton.....	400 00	1 00
August 20.....	129	238 Liberty.....	300 00	1 00
September 26.....	247	347 Taylor.....	300 00	1 00
" 29.....	256	339 Taylor.....	80 00	1 00
October 1.....	261	2 Bartlett Court.....	25 00	1 00
" 16.....	320	20 Apple.....	150 00	1 00
December 17.....	427	422 Gordon.....	100 00	1 00
Ward No. 37.				
July 10.....	21	Professor, near Literary.....	40 00	1 00
" 18.....	29	Auburn, near Little.....	250 00	1 00
August 20.....	133	193 Merchant.....	600 00	1 00
September 4.....	167	Potter Court, near Pearl.....	400 00	1 00
" 10.....	185	36 University.....	400 00	1 00
" 25.....	245	22 Swan.....	75 00	1 00
" 28.....	255	15 College.....	200 00	1 00
October 4.....	285	105 Jennings.....	600 00	1 00
" 26.....	347	93 Thurman.....	300 00	1 00
November 7.....	365	Willey, near Scranton.....	200 00	1 00
December 21.....	433	60 Howard.....	325 00	1 00
" 28.....	441	Central Way, near Cuyahoga.....	650 00	1 00
Ward No. 38.				
August 8.....	109	118 Noyes.....	50 00	1 00
" 9.....	114	98 Walton.....	75 00	1 00
" 15.....	122	775 Clark.....	300 00	1 00

ADDITIONS AND ALTERATIONS.—*Continued.*

Date.	No. of Applica- tion.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 38.—Continued.				
August 24.....	143	503 Clark.....	\$ 40 00	\$ 1 00
September 24.....	231	140 Rowley.....	40 00	1 00
" 26.....	250	24 Teton.....	200 00	1 00
October 17.....	327	8 Branch.....	35 00	1 00
" 27.....	352	32 Holmden.....	65 00	1 00
November 10.....	375	104 Pearl.....	300 00	1 00
" 19.....	394	53 Noyes.....	400 00	1 00
" 30.....	408	113 Noyes.....	250 00	1 00
Ward No. 39.				
July 1.....	7	1003-1009 Pearl.....	1,100 00	3 20
" 5.....	12	Pearl, near Vega.....	1,100 00	3 00
" 16.....	40	875 Pearl.....	300 00	1 00
" 16.....	41	1114 Pearl.....	580 00	1 00
" 17.....	46	166 Seymour.....	475 00	1 00
" 25.....	68	13 Erin.....	225 00	1 00
August 8.....	111	174 Walton.....	300 00	1 00
September 20.....	217	160 Rhodes.....	250 00	1 00
" 20.....	221	15 Queen.....	75 00	1 00
" 24.....	233	207 Louis.....	70 00	1 00
October 1.....	259	L. 52 Berne.....	60 00	1 00
" 5.....	286	172 R. Seymour.....	350 00	1 00
" 10.....	304	148 Rhodes.....	40 00	1 00
November 7.....	366	39 Seymour.....	36 00	1 00
" 23.....	398	25 Pollock.....	30 00	1 00
" 27.....	404	1107 Pearl.....	150 00	1 00
December 1.....	411	Brooklyn, near Sackett.....	125 00	1 00
" 14.....	422	706 and 708 Clark.....	110 00	1 00
Ward No. 40.				
August 18.....	127	7 Ash.....	200 00	1 00
" 24.....	145	21 Ash.....	300 00	1 00
September 5.....	171	1049 Clark.....	250 00	1 00

ADDITIONS AND ALTERATIONS.—*Concluded.*

Date.	No. of Applica- tion.	LOCATION.	Estimated Cost of Structure.	Cost of Permit.
Ward No. 40.—Continued.				
September 5..	173	92 Newark.....	\$ 150 00	\$ 1 00
October 5.....	289	42 Millford.....	40 00	1 00
November 9...	374	Storer, near Isabella	300 00	1 00
" 13..	384	5 Hide.....	40 00	1 00
December 5...	415	80 Isabella.....	400 00	1 00
" 18...	428	16 Elk.....	80 00	1 00
" 18...	429	Isabella, near Clark.....	300 00	1 00

REPORT OF THE INSPECTOR OF BUILDINGS.

RECAPITULATION.

1888.	Amount of Certificates issued to City Clerk for Per- mit—Brick and Stone.	Certificates No. of	Amount of Certificates issued to City Clerk for Per- mit—Wood and Frame.	Certificates No. of	Amount of Certificates issued to City Clerk for Per- mit—Addi- tions and Alterations.	Certificates No. of	Amount of Certificates issued to City Clerk to Move Build- ings.	Certificates No. of	Total No. of Certificates.	Total Amount of Certificates issued to City Clerk for all purposes.	Total Cost of all Classes of Structures.	Total Expense, including Salaries, Office Furniture, Stationery, Blanks, &c.
Month.												
June	\$ 89 31	6	\$ 58 05	13	\$ 11 40	5	\$ 18 00	9	33	\$ 176 76	\$ 55,986 00	\$ 402 04
July	387 24	26	591 12	170	109 00	84	18 00	9	289	1,105 36	602,810 00	425 58
August	379 60	15	564 40	220	117 00	72	18 00	9	316	1,079 00	1,330,000 00	1,088 23
September ...	207 75	17	633 77	256	128 00	84	20 00	10	377	987 52	389,237 00	417 33
October	49 65	5	565 05	215	121 00	101	24 00	12	333	759 70	320,014 00	447 23
November	No charge.	1	363 98	140	61 00	48	4 00	2	191	428 15	187,586 00	410 33
December	53 00	6	232 10	87	55 00	37	8 00	4	134	348 10	136,286 00	430 83
Grand Total..	\$ 1,166 55	76	\$ 3,006 42	1101	\$ 600 40	441	\$ 110 00	55	1673	\$ 4,984 50	\$ 3,031,988 00	\$ 3,571 57

Report of the City Clerk.

City Clerk's Report.

To the Honorable Common Council:

The steady increase in the work of this department has been especially noticeable the past year, the license business alone showing an increase of one-third over the previous year. The latter fact is largely due to the enforcement of the building law, which went into effect in June. The license system on the whole is, however, in the same unsatisfactory condition that has always characterized it, and neither the Common Council nor the General Assembly has shown any disposition to encourage efforts at correction which have been repeatedly made by us. Thorough regulation would be accompanied by a yearly revenue of from \$75,000 to \$100,000.

THE CITY ADVERTISING.

In the matter of advertising city notices, ordinances, etc., in newspapers our report will show a saving over past years, but the amount thus expended is still enormous and, as the bulk of the expense is paid out of special assessments for street improvements, it is a fearful hardship on the people affected. It is not generally known that the State law provides just how many times ordinances, resolutions, etc., shall be published. We make the publication cover as few insertions as is possible, and our only effort can be to keep down the prices charged to the lowest possible limit, in which we have very fairly succeeded. The numerous publications required by the law are unnecessary and only cause a needless expense to be borne by a few

unfortunate property holders. This system approaches brigandage when it is shown that the publication of notices to improve certain streets costs more than the improvement advertised. The correction of this evil is obvious: The State law should be amended so as to reduce the number of publications: confine them to a single insertion in special improvements.

That, however, will be only a partial relief. The method of advertising promiscuously in newspapers is a growing evil. It is made the object of party contention and, from year to year, makes greater inroads upon the public moneys. It would be the part of wisdom to treat it as other affairs have been handled when great wrongs were practiced: Destroy the means of practicing the wrong. Let the city become its own publisher. The weekly issue of a City Record would not cost the city over \$3,000 per annum. The work could be let out by contract the same as other job work is now let—to the lowest bidder. In the year 1886 the advertising expenses amounted to \$16,000. The cost during the past year was \$9,249.82, which was paid to six newspapers. Nobody can dispute that the saving would be enormous, amounting to over 200 per cent., and the results would certainly be more satisfactory than the present method. The Record should contain the official proceedings of the Common Council and such other boards as may desire to avail themselves of the publication. In fact, the enactment of a proper law could force every board into confining its advertising, etc., to this official organ, which would thus be rendered a complete journal of all the city's doings, making costly blunders in publication next to impossible. Every taxpayer and resident would know exactly where to find any official information that he may desire, and contractors of all kinds could keep themselves continually posted, assuring closer competition for city work. As it is, the notices inserted in newspapers are placed where nobody will read them, and the people whom they affect afterwards pay for what they never saw. It would be the object to circulate the Record among those very people, and this could be accomplished by a single messenger. The City Clerk could act as editor of the proposed journal with less bother to himself than the present loose and irresponsible method

entails. Free distribution would give the Record the "general circulation" required by law. The Record would be a great good to the city in every respect, and I believe that the advertising evil can be remedied by no other means.

CITY PROPERTY.

The City Property Record is now being accorded the attention that has so long been wanting. We have succeeded in obtaining the records of transfers of almost all parcels of real estate owned by the city. Still it is impossible to tell just how much of such property has never been recorded with the county authorities and a complete record is at present impossible. The history of the old Pest House property, recently held by the "Perun Society" although not paid for by the latter, indicates the importance of securing abstracts of all land ever owned by the city, and the matter should no longer be delayed. To prevent a perpetuance of the looseness that has created the present chaotic situation, the General Assembly should enact a law obliging all city boards to submit deeds for purchase or sale to the Common Council.

PRESERVE THE OLD RECORDS.

The journals of the Cleveland City Council date from the year 1803. They are a perfect history of the municipality. The first volumes are rapidly passing into the condition of the "sear and yaller leaf" and require immediate attention to preserve them from destruction. They should be copied and the copies kept on file for use, and the originals be encased in some protective material and put away. They are certainly the most valuable relics in the city's possession and should be religiously guarded. The same statement applies to the original papers of former years, which, piled and mixed indiscriminately, present a sad reminder of past neglect. These papers are valuable and may at any time become most important as evidence in legal proceedings. A few hundred dollars could not be better spent than in having the records properly sorted. Another matter which should be attended to is the index of Council proceedings, which is entirely lacking from the years 1860 to 1876. The work requires very

close attention and will never be completed unless the Council delegates some person to confine himself to it alone. The copying of the first journals, the sorting of old papers, and the completion of the index will, in connection with the almost perfect files of newspapers in our possession, afford the city as thorough a history of its transactions and progress as could possibly be had or desired.

Your attention is respectfully directed to the succeeding tables, showing the work accomplished by your honorable body during 1888, the amount of advertising, printing, etc., done, and the number of city licenses issued and the revenues accruing therefrom.

COMMON COUNCIL.

Number of meetings held :

Board of Aldermen—Regular meetings	27
Special meetings	7
Board of Councilmen—Regular meetings	52
Special meetings	4
Joint sessions	15
Total meetings	105

Amount of business transacted :

Petitions	270
*Claims	20
Communications	866
†Ordinances	432

Resolutions :

Streets	1,232
Lighting	262
Miscellaneous	475
Miscellaneous papers	373
Total	3,930

†Ordinances passed, 342. Revised Ordinances of 1882 amended 16 times.

*In addition see claims for damages by reason of street improvements on next page.

CLAIMS FILED FOR STREET IMPROVEMENT DAMAGES.

STREET.	NO. OF CLAIMS.	AMOUNT.
Brooker avenue.....	1	\$ 500 00
Croton street.....	15.....	4,683 60
Cedar avenue.....	3.....	700 00
Cottage street.....	2.....	1,500 00
Decatur alley.....	4.....	1,000 00
East Madison avenue.....	13.....	5,400 00
Fenton street.....	1.....	500 00
Finney street.....	4.....	1,700 00
Grape street.....	3.....	1,200 00
Hough avenue.....	2.....	1,500 00
Harbor street.....	2.....	175 00
Hamilton street.....	1.....	100 00
Logan avenue.....	3.....	5,150 00
Little street and Little street (so called).....	11.....	2,050 00
McCurdy street.....	2.....	200 00
Mentor avenue.....	2.....	300 00
Newark street.....	2.....	1,200 00
Oregon street.....	1.....	100 00
Outhwaite street.....	1.....	100 00
Ontario street.....	8.....	46,600 98
Oak Grove alley.....	2.....	350 00
Perry street.....	1.....	500 00
Portland street.....	1.....	37 00
Petrie street.....	3.....	675 00
Prague street.....	1.....	100 00
Reservoir street.....	5.....	550 00
Reno street.....	15.....	5,300 00
St. Clair street.....	2.....	1,500 00
Union street.....	17.....	6,550 00
Vergennes street	1.....	100 00
Woodland Hills avenue.....	2.....	1,075 00
Willson avenue.....	2.....	1,000 00
Worthington street.....	3.....	2,500 00
Totals.....	136.....	\$ 94,946 58

GRANTS TO STREET RAILROADS.

Every Street Railroad Company operating in the city received some grant or right through ordinances passed by the Common Council during the year. Following is a summary :

The East Cleveland Street Railroad Company was granted the right to lay an additional track on Cedar avenue, and to employ electricity as a motive power, east of Willson avenue, in consideration of which the company was granted a franchise of 25 years, dating from July 13, 1888.

The South Side Street Railroad Company was authorized to employ electricity as a motive power and granted a franchise of 25 years, dating from October 5, 1888. This company was also granted the right to extend its line through Jennings avenue, Central Viaduct, Central Place, Fairfield and Professor streets.

The Brooklyn, the Broadway and Newburgh and the Woodland avenue and West Side Street Railway Companies were authorized and did change the route of their lines around the Public Square, so as to pass through the Square by way of Superior and Ontario streets.

The Woodland and West Side Company extended its West Cleveland and Bridge street branches up Superior street to the east side of the Square, thence to Euclid avenue, connecting with the East Cleveland Street Railway Company's tracks, making a circuit of the south half of the Square.

The Woodland avenue and West Side Street Railroad Company was also granted the right to extend its line of tracks and run cars on Abbey street, Jennings avenue, Central Place and over Central Viaduct.

The St. Clair Street Railway Company, by authority, extended its line on Water street, from St. Clair street to Superior, up Superior street to Bank street, thence along Bank street, connecting with its tracks on St. Clair street.

The Superior Street Railway Company was granted the right to extend its tracks on Superior street from the Square to Water street.

STREET OPENING ASSESSMENTS.

Five assessments were made for opening and extending streets, viz :

Trumbull street, from Forest to Davies.

Grand avenue, from East line of W. H. Beaumont's allotment to East Madison avenue.

Ellsworth street, from Lundy to the right of way of the C. & P. R. R. Company's tracks.

Humboldt street, Woodland to Orange.

Platt street, from East line of Keyes and Edwards' subdivision to Edwards street.

Trumbull, Grand and Ellsworth street assessments were approved and the streets opened. Platt street is pending. Humboldt street was laid on the table.

**AMOUNTS OF NEWSPAPER ADVERTISING CHARGED
TO THE VARIOUS DEPARTMENTS DURING 1888.**

City Clerk.....	\$7,102 95
Depository Commission.....	22 00
Board of Improvements.....	740 30
Water Works.....	138 25
Infirmary	30 45
Workhouse.....	41 00
Police.....	1 60
Smoke Inspector.....	4 00
Cemetery.....	21 25
Markets.....	5 35
Fire.....	162 00
Health.....	44 41
Harbor Master.....	9 00
Building Inspector.....	6 40
Engineer.....	904 35
Auditor.....	11 50
Mayor.....	5 00
Total.....	\$9,249 82
Less bills for Council proceedings (unpaid).....	1,240 20
Total paid out.....	\$8,009 62

**AMOUNTS PAID THE DIFFERENT NEWSPAPERS FOR
ADVERTISING DURING 1888.**

Waechter am Erie.....	\$2,773 37
Plain Dealer.....	3,547 39
Deannice Novoveku.....	535 66
Anzeiger.....	7 60
Leader.....	1,113 00
Press.....	32 60
Total.....	\$8,009 62

AMOUNT OF BLANK BOOKS, PRINTING AND STATIONERY FURNISHED THE VARIOUS
DEPARTMENTS.

	Blank Books.	Printing.	Paper and Envelopes.	Stationery.	Litho- graphing.	Totals.
Mayor.....		\$ 40 10		\$ 6 50	\$ 13 75	\$ 60 35
Board of Improvements.....	\$ 48 12	43 50		37 52	21 40	150 54
Fire Department.....	11 83	71 93	3 50	5 15	10 00	102 41
Police Department.....	45 95	379 99	35 80	165 92	33 80	661 46
Police Court.....	92 11	165 98	6 10	30 64		294 83
Workhouse.....	51 31	143 79	21 60	47 14	63 00	326 84
Infirmary.....	78 27	21 25	3 85	65		104 02
Water Works.....		562 21				562 21
Auditor.....	286 65	741 88	19 25	118 30	187 75	1,553 83
Treasurer.....	70 30	7 90	1 30	4 70		84 20
City Clerk.....	498 43	1,812 62	5 60	275 14		2,581 79
Solicitor.....	42 90	39 95	45 40	10 50		138 75
Engineer.....	96 05	266 52	1 80	176 48		540 85
Street Department.....		12 85	1 15	2 90		16 90
Health Department.....	176 99	454 82	8 99	10 57		651 37

AMOUNT OF BLANK BOOKS, PRINTING AND STATIONERY FURNISHED THE VARIOUS DEPARTMENTS.—CONTINUED.

	Blank Books.	Printing.	Paper and Envelopes.	Stationery.	Litho-graphing.	Totals.
Smoke Inspector.....	\$ 45 52	\$ 7 10		\$ 1 40		\$ 54 02
City Sealer.....				19 09		19 09
Parks.....	3 21	29 39	2 80	4 60		40 00
Markets.....		4 15				4 15
Cemeteries.....		20 34				20 34
Hospital Commission.....		3 99				3 99
Board of Elections.....		1 50		64 00		65 50
Harbor Master.....		52 25				52 25
Building Inspector.....	117 67	62 99		37 35		218 01
Totals.....	\$ 1,655 31	\$ 4,947 00	\$ 157 14	\$ 1,018 55	\$ 329 70	\$ 8,107 70

CITY LICENSES ISSUED BY THE CITY CLERK.

Months.	Exhibitions, etc.		Peddlers.		Cabs, etc		Street Cars		Drays. Wagons. etc.		Pawn- brokers.		Dogs.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
January.....	8	\$82 00	88	\$ 218 00	4	\$20 00	.....	.....	18	\$ 54 00	1	\$50 00	.....	.....
February.....	2	6 00	77	230 00	.....	.....	173	1,730 00	38	114 00	.....	.....	.....	.....
March.....	3	68 00	65	303 00	6	30 00	.....	.....	51	153 00	.....	.....	.....	.....
April.....	3	35 00	139	807 00	3	15 00	.....	.....	59	177 00	.....	.....	.....	.....
May.....	7	59 00	203	2,802 00	3	15 00	.....	.....	61	183 00	1	50 00	.....	.....
June.....	15	144 00	171	884 00	6	30 00	51	510 00	57	171 00	2	100 00	.....	.....
July.....	19	41 00	158	825 00	9	45 00	.....	.....	37	111 00	3	150 00	3344	3,656 20
August.....	16	105 00	107	349 00	8	40 00	.....	.....	14	42 00	.....	.....	1732	1,885 20
September.....	1	10 00	72	302 00	3	15 00	.....	.....	16	48 00	.....	.....	87	93 60
October.....	.....	.....	95	240 00	4	20 00	1	10 00	31	93 00	3	150 00	13	13 80
November.....	.....	.....	92	245 00	3	15 00	.....	.....	23	69 00	2	100 00	3	3 00
December.....	6	210 00	109	265 00	1	5 00	.....	.....	50	150 00	.....	.....	1	1 00
Totals.....	80	760 00	1376	7,470 00	50	250 00	225	2,250 00	455	1,365 00	12	600 00	5180	5,652 80

CITY LICENSES.—Continued.

Ferries.		Public Docks.		Stationary Engineers.		Gardeners.		Building.		Free.	Totals by Months.	
No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	No.	Amount.
				217	\$108 50					7	350	\$ 532 50
				116	58 00	1	10 00			7	414	2,148 00
1	10 00	1	10 00	38	19 00	1	10 00			10	176	603 00
				40	20 00	8	80 00			7	259	1,134 00
		7	321 90	57	28 50	139	1,390 00			7	485	4,849 40
				41	20 50	21	210 00	20	53 29	7	341	2,122 79
				50	24 75			283	1,130 81	6	3,909	5,983 76
				20	10 00	19	190 00	319	1,126 25	9	1,925	3,747 45
1	10 00			28	12 75	9	90 00	376	1,018 54	7	600	1,599 89
		2	103 00	90	31 25			229	753 50	10	478	1,414 55
		2	30 00	157	43 00			165	398 60	12	462	903 60
				167	46 50			115	320 50	14	464	998 00
2	20 00	12	464 90	1021	422 75	198	1,980 00	1507	4,801 49	103	9,863	26,036 94

The license money was paid into the following funds:

General fund.....	\$10,674 14
Infirmity fund.....	6,418 00
Lighting fund.....	1,885 60
Police Court fund.....	3,767 20
Hospital Commission fund.....	1,052 00
Street fund.....	2,240 00
Total.....	<u>\$26,036 94</u>

Respectfully submitted,

CHAS. P. SALEN,

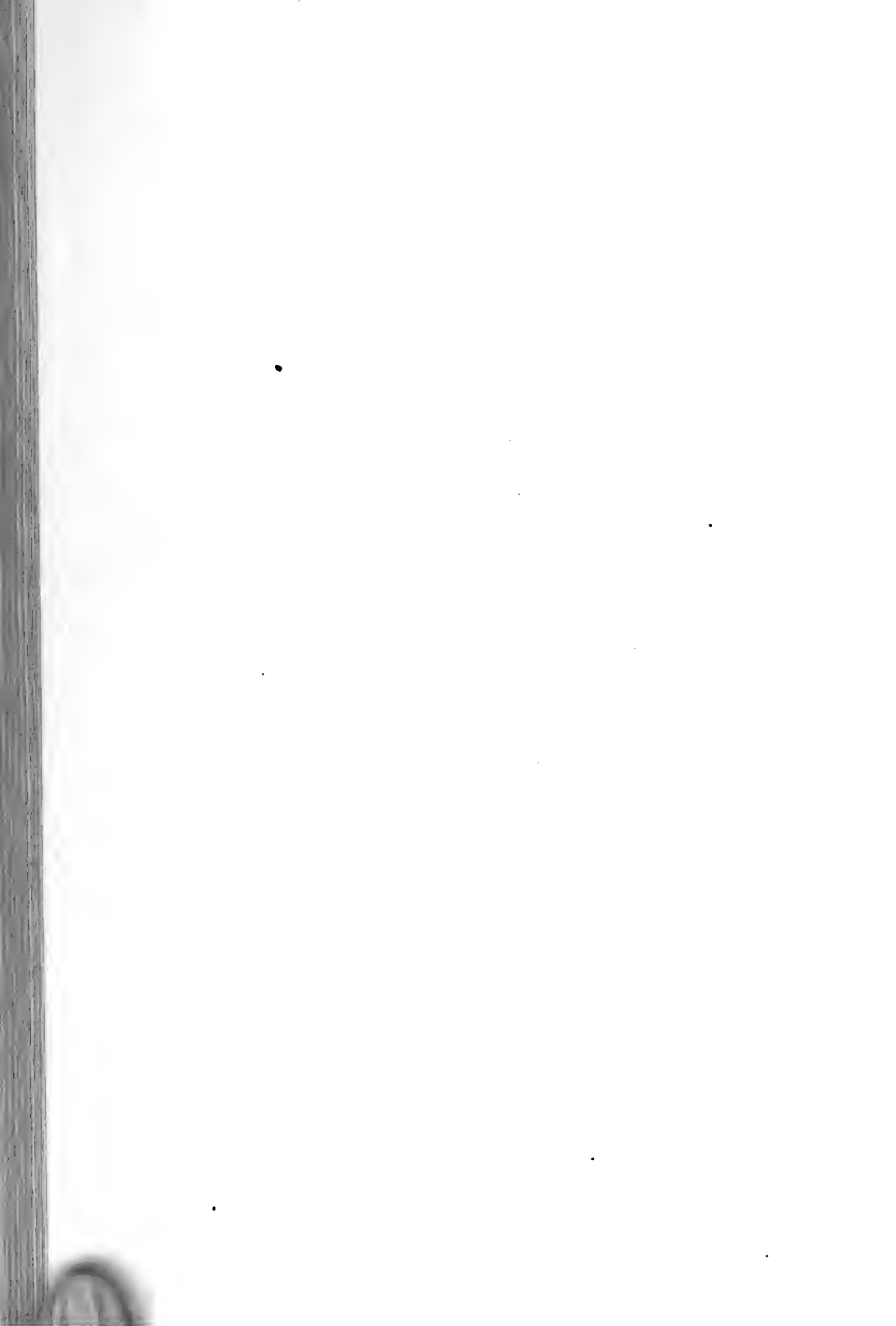
City Clerk.

Report of Cemetery Trustees.

C

To the Common Council of Cle

**GENTLEMEN:—I have
orable Body with the Annu
December 31st, 1888.**



TRUSTEES OF CEMETERIES.

J. H. MELCHER, President.

WM. H. BROWN, Treasurer.

ROBT. GILL.

L. W. BAILEY, Secretary.

SUPERINTENDENTS OF CEMETERIES.

WOODLAND:

S. F. DRAKE.

A. H. ROEMER, Assistant.

ERIE STREET:

J. H. MILLER.

MONROE STREET:

FRED. DROEGE.

HARVARD GROVE:

J. C. PALMER.

Trustees' Report.

CLEVELAND, O., January 1st, 1889.

able Common Council:

MEMORIAL :—The undersigned, Trustees of Cemeteries, respectively herewith our Annual Report for the year 1888, of the facts transacted by us in the management of the several Cemeteries of the City under our control.

of Trustee J. H. Melcher expired in April last, and at a special election held on the first Monday in April, Mr. J. H. Melcher was elected as his own successor for three years.

At the next regular meeting of the Board after said election the organization was perfected: Trustee J. H. Melcher, having been elected, took his seat, and was elected President; Wm. H. Melcher, elected Treasurer, and L. W. Bailey was elected Secretary.

on the policy of the Board to conduct all matters with
sistent with good management, which will appear upon
e various tabulated statements.

ount of seventy-nine hundred and twenty-four dollars and
(,924.02) has been expended for improvements, divided

and avenue cemetery received the benefit of the above extent of sixty-six hundred and seventy-six dollars and cents (\$6,676.17) in the erection of a building where the dead comfortably eat their dinners and store tools and materials on the grounds; a drinking fountain; a fence enclosing the grounds; piles of stone and brick used in building foundations and vaults; a long needed stone walk from the office building to the receiving vault. It was found necessary to replace the old sewer pipe with an iron one—the old one being a cement pipe. The flagging of the Quincy street front of the Cemetery, and the caskets and boxes now used being so much larger than

formerly, it became necessary to remodel the racks in the receiving vault. Box gutters have been placed at street crossings, making it much more pleasant to drive over than the ditch gutters formally used. A large number of the old oak trees had to be removed on account of decay, and many new trees have been planted, noticeably on the Quincy street front. During the last Summer season many flower beds adorned the grounds, the beauty of which is but for a season, but adds to the attractiveness of the grounds, and for which many words of praise have been given. The dwelling houses in the grounds have been thoroughly repaired.

Erie street cemetery has received improvements to the amount of four hundred and forty-one dollars and thirty-one cents (\$441.31) in the erection of a building for the storage of materials used, repairs on the receiving vault, a new safe for the office, and for trees and shrubbery.

Monroe street cemetery has consumed for improvements six hundred and thirty-nine dollars and forty-nine cents (\$639.49) in stone walk from the office to the receiving vault, extending water pipes, and for trees and shrubbery.

Harvard Grove Cemetery has been improved to the amount of one hundred and sixty-seven dollars and five cents (\$167.05) in making passable the roadways and walks, the planting of trees and shrubbery.

We wish, at this time, to return thanks to all officers and others who in any way assisted in the management or work of the several cemeteries for their efficiency, and for the cheerful manner in which all the duties were performed.

On the 13th of October, Ph. Widlar, Superintendent of Woodland cemetery, was stricken down with apoplexy and died the same evening. On the 5th day of November, S. F. Drake was appointed Superintendent, and A. H. Roemer, Assistant Superintendent.

Following this you will find tabulated statements prepared by the Secretary showing the amount of business transacted, and also the receipts and disbursements for the several cemeteries under control of this Board during the past year, all of which we respectfully submit.

J. H. MELCHER,
WM. H. BROWN,
R. GILL.

L. W. BAILEY, *Secretary*.

Statistical Tables.

THE INTERMENTS

during the past year have been as follows :

Cemeteries.	Adults.		Minors.		Grand Total.
	Males.	Females.	Males.	Females.	
Woodland avenue.....	301	256	451	334	1,342
Erie street.....	52	44	34	53	183
Monroe street.....	120	102	150	145	517
Harvard Grove.....	40	34	60	36	170
Total.....	513	436	695	568	2,212

The lots and grave spaces sold during the year were as follows :

Cemeteries.	No. Sold.	Amount.	*Cash.	Credit.
Woodland avenue.....	395	\$ 9,262 96	\$ 7,825 11	\$ 1,437 85
Erie street.....	96	1,094 00	1,094 00	.....
Monroe street.....	262	2,599 00	2,351 50	247 50
Harvard Grove.....	103	1,266 50	1,122 50	144 00
Total.....	856	14,222 46	12,393 11	1,829 35

*This amount includes payments on lots purchased prior to 1888, and not heretofore reported.

REPORT OF CEMETERY TRUSTEES.

159

RECEIPTS.

From what Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$ 383 80	\$ 558 00	\$ 496 38	\$1,092 43	\$ 904 79	\$ 648 50	\$ 785 18	\$ 706 53	\$ 653 20	\$ 705 45	\$ 644 65	\$ 246 20
Services and vault fees.....	440 65	495 50	477 00	769 45	1,295 11	681 43	617 23	708 20	516 63	496 00	570 24	516 71
Total receipts.....	\$ 824 45	\$1,053 50	\$ 973 38	\$1,861 88	\$2,199 90	\$1,329 93	\$1,402 41	\$1,414 73	\$1,169 83	\$1,191 45	\$1,214 89	\$ 763 91

EXPENDITURES.

For what Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay roll.....	\$ 489 89	\$ 494 83	\$ 497 68	\$ 815 73	\$ 1,090 52	\$ 1,106 69	\$ 1,002 28	\$ 1,004 47	\$ 908 13	\$ 881 33	\$ 780 69	\$ 613 80
Current expenses.....	51 96	31 77	80 46	225 99	79 93	56 25	101 96	55 85	14 29	85 94	130 71	69 01
Improvements.....	170 20	164 13	55 85	889 56	1,386 89	754 35	146 65	99 82	182 48	532 38	2,008 89	266 97
Total disbursements.....	\$ 712 05	\$ 690 73	\$ 633 99	\$ 1,931 28	\$ 2,536 34	\$ 1,917 29	\$ 1,250 89	\$ 1,150 14	\$ 1,004 90	\$ 1,499 65	\$ 2,946 29	\$ 949 78

ERIE STREET CEMETERY.

RECEIPTS.

From what Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces....	\$ 72 00	\$ 122 00	\$ 104 00	\$ 147 50	\$ 187 50	\$ 76 50	\$ 43 00	\$ 22 50	\$ 93 50	\$ 11 00	\$ 25 50	\$ 91 00
Services and vault fees.....	87 75	88 25	180 95	164 85	240 95	170 80	281 25	143 05	106 90	63 50	161 10	134 25
Total receipts.....	\$ 159 75	\$ 210 25	\$ 284 95	\$ 312 35	\$ 428 45	\$ 247 30	\$ 324 25	\$ 165 55	\$ 200 40	\$ 74 50	\$ 186 60	\$ 225 25

EXPENDITURES.

For what Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay roll.....	\$ 131 83	\$ 146 71	\$ 145 46	\$ 170 25	\$ 222 71	\$ 176 33	\$ 203 21	\$ 181 08	\$ 174 08	\$ 179 96	\$ 145 58	\$ 146 58
Current expenses.....	55	3 15	7 85	15 87	12 15	6 49	9 27	25 50	8 35	3 00	10 50	2 70
Improvements.....		18 12	47 62	21 58	34 58	37 94	110 05	20 99	14 17	.....	107 41	28 95
Total disbursements.....	\$ 132 38	\$ 167 98	\$ 200 83	\$ 207 70	\$ 260 44	\$ 220 76	\$ 322 53	\$ 227 57	\$ 196 60	\$ 182 96	\$ 263 49	\$ 178 23

RECEIPTS.

From what Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$ 257 00	\$ 102 50	\$ 223 50	\$ 153 50	\$ 373 00	\$ 139 50	\$ 219 50	\$ 175 50	\$ 183 50	\$ 192 50	\$ 172 50	\$ 173 00
Services and vault fees.....	242 50	109 50	172 50	271 80	246 95	221 00	246 30	188 00	210 50	189 00	146 00	214 00
Total receipts.....	\$ 499 50	\$ 212 00	\$ 396 00	\$ 425 30	\$ 669 95	\$ 360 50	\$ 455 80	\$ 363 50	\$ 394 00	\$ 331 50	\$ 318 50	\$ 387 00

EXPENDITURES.

For what Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay roll.....	\$ 164 59	\$ 145 34	\$ 166 97	\$ 452 75	\$ 344 48	\$ 319 51	\$ 275 11	\$ 289 77	\$ 247 21	\$ 253 29	\$ 188 46	\$ 158 59
Current expenses.....	1 07	.....	41 83	7 00	9 88	9 58	54 54	5 00	13 20	3 60	3 43	.....
Improvements.....	.....	15 00	7 60	195 31	93 85	25 00	42 58	.....	.....	28 19	19 50	217 46
Total disbursements.....	\$ 165 66	\$ 160 34	\$ 216 40	\$ 455 06	\$ 448 21	\$ 354 09	\$ 372 23	\$ 294 77	\$ 260 41	\$ 260 08	\$ 211 39	\$ 371 05

HARVARD GROVE CEMETERY.

RECEIPTS.

From what Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	\$ 47 00	\$ 14 50	\$ 136 00	\$ 146 50	\$ 159 50	\$ 74 00	\$ 93 00	\$ 154 00	\$ 168 00	\$ 8 50	\$ 69 50	\$ 52 00
Sale of lots and grave spaces...	39 25	72 75	54 00	111 75	114 25	89 75	71 50	102 75	76 25	48 25	49 25	88 90
Services and vault fees.....												
Total receipts.....	\$ 86 25	\$ 87 25	\$ 190 00	\$ 258 25	\$ 273 75	\$ 163 75	\$ 164 50	\$ 256 75	\$ 244 25	\$ 56 75	\$ 118 75	\$ 140 90

EXPENDITURES.

For what Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	\$ 117 25	\$ 80 50	\$ 91 75	\$ 160 50	\$ 198 00	\$ 157 00	\$ 119 50	\$ 165 00	\$ 170 00	\$ 151 00	\$ 164 50	\$ 125 50
Pay roll.....	33 94	4 80	7 00	9 06	35 05	.....	23 00	8 50	23 70	.....	.....	21 50
Current expenses.....			4 00	28 23	14 00	69 52	19 45	30 05	1 80	.....	.....	.....
Improvements.....												
Total disbursements.....	\$ 151 19	\$ 85 30	\$ 102 75	\$ 197 79	\$ 248 05	\$ 226 52	\$ 161 95	\$ 203 55	\$ 186 50	\$ 151 00	\$ 164 50	\$ 147 00

TREASURER'S SUMMARY.

Balance on hand January 1, 1888.....			\$ 23,728 77
RECEIVED FROM SALE OF LOTS AND GRAVE SPACES.			
Woodland avenue cemetery.....	\$ 7,825 11		
Erie street cemetery.....	996 00		
Monroe street cemetery.....	2,385 50		
Harvard Grove cemetery	1,122 50		
Total.....		\$ 12,309 11	
RECEIVED FOR SERVICES.			
Woodland avenue cemetery.....	\$ 6,630 15		
Erie street cemetery.....	1,605 85		
Monroe street cemetery.....	2,231 55		
Harvard Grove cemetery.....	828 15		
Total.....		\$ 11,295 70	
RECEIVED FOR VAULT FEES.			
Woodland avenue cemetery.....	944 00		
Erie street cemetery.....	217 75		
Monroe street cemetery.....	216 50		
Harvard Grove cemetery	90 50		
Total.....		\$ 1,468 75	
Total receipts			\$ 25,073 56
Grand Total.....			\$ 48,802 33
AMOUNT PAID—PAY-ROLLS AND CURRENT EXPENSES.			
Woodland avenue cemetery.....	\$ 10,547 16		
Erie street cemetery.....	2,129 16		
Monroe street cemetery.....	2,960 20		
Harvard Grove cemetery.....	1,868 05		
Total.....		\$ 17,504 57	

TREASURER'S SUMMARY.—*Continued.*

AMOUNTS PAID FOR IMPROVEMENTS.			
avenue cemetery.....	\$ 6,676 17		
cemetery.....	441 31		
et cemetery.....	639 49		
rove cemetery.....	167 05		
		\$ 7,924 02	
l disbursements.....			\$ 25,428 59
credit of fund January 1, 1889.....			\$ 23,373 74
credit of fund arising from the sale of lots and grave spaces January			
			\$ 23,728 77
ring the year from the sale of lots and grave spaces..			12,309 11
Total.....			\$ 36,037 88
en from the fund arising from the sale of lots and grave spaces to pay			
s and current expenses.....			4,740 12
r improving and embellishing the several cemeteries.....			7,924 02
Total.....			\$ 12,664 14
balance January 1, 1889, to credit of fund.....			23,373 74
edit of fund for general purposes January 1, 1888.....			
ng the year for services and vault fees.....			12,764 45
n the fund arising from the sale of lots and grave spaces.....			4,740 12
Total.....			\$ 17,504 57
current expenses during the year.....			17,504 57
ary 1, 1888, to credit of general fund.....			
total amount running expenses for the year.....			17,504 57
total receipts for services and vault fees for the year.....			12,764 45
n from the fund arising from the sale of lots and grave spaces.....			\$ 4,740 12

The foregoing statement shows that the running expenses (other than for improvements) of the several cemeteries are in excess of the receipts for services and vault fees, which constitute the fund from which the running expenses should be paid. It has been the custom for years past to use the fund arising from the sale of lots and grave spaces to pay the running expenses, thereby making the several cemeteries self-sustaining. By this arrangement the citizens have not been taxed for cemetery purposes for many years.

The following will show the excess of running expenses over receipts (applicable for the purpose) of the several cemeteries for the year just closed :

For Woodland Avenue.....	\$2,973 01
For Erie Street.....	305 56
For Monroe Street.....	512 15
For Harvard Grove.....	949 40
Total.....	\$4,740 12
Excess of expenditures over receipts applicable for this purpose.....	\$4,740 12

L. W. BAILEY,

Secretary.

port of Police Commissioners.



BOARD OF POLICE COMMISSIONERS.

B. D. BABCOCK,
Mayor and President.

COMMISSIONERS.

BRADNER, JAMES McNEIL,
MORRIS, FRANK D. BOSWORTH,
JOHN VANEK, Secretary.
F. B. NORTON, Surgeon.

J. W. SCHMITT, Superintendent.
JAMES McMAHON, Deputy Superintendent.
HENRY HOEHN, Captain.
E. K. HUTCHINSON, Captain.
M. F. MADIGAN, Captain.

the municipal election in April, 1888, Mr. Frank D. Bosworth
acted Police Commissioner for the term of four years, in place
J. P. Urban, whose term of office expired.



REPORT

OF THE

Board of Police Commissioners

OF THE

CITY OF CLEVELAND.

OFFICE OF THE BOARD OF POLICE COMMISSIONERS, }
CLEVELAND, January 1st, 1889. }

Honorable the Common Council:

GENTLEMEN:—In accordance with law we have the honor to submit the report of this Department for the year ending December 31, 1888.

Total expenditures of the Department during the year as shown by the report of the Secretary, a copy of which is hereunto appended, was \$256,352.67, of which sum \$239,889.70 was paid for salaries and \$16,462.97 for rents, repairs of stations, fuel, lighting, etc., being \$1,148.66 less than the expenditures in 1887.

The present force is inadequate for the protection of the persons and property of our citizens, and more men are required to give certainty to the city the protection to which the residents are

entitled. Having 222 officers of all grades (182 patrolmen and 40 officers) protecting our population at 250,000, there is one patrolman to every 1,350 of population. At night two-thirds of the force is on

duty, leaving but one patrolman to every 2,061 of population, and in the day time only one-third of the force being on duty would leave but one patrolman for the protection of every 4,121 of population.

The city contains within its limits 453.3 miles of streets, giving an average of each patrolman 7.47 miles to patrol in the day time, and 3.74 miles at night.

In accordance with Section 1,929 of the Revised Statutes of Ohio, the Board of Police have power to appoint one patrolman for each 750 inhabitants, which would give us 333 patrolmen, an increase of 151 over our present force.

Your attention is respectfully called to several needed improvements.

Not alone justice to the health and comfort of the men on the force, who are compelled to spend part of their time in the station houses, but common humanity to many unfortunate persons who are forcibly detained therein, demand that the stations and prisons be constructed and maintained so as to afford the best opportunity for light, ventilation and cleanliness; and in this regard some of the station houses of our city, the Board is compelled, with regret, to acknowledge, are in such a condition as to demand immediate improvements.

The Board respectfully call your attention to the condition of the Central Police station. The building was erected when the number of arrests was less than 1,000 per year, and when the entire police force of the city was about one-quarter the number now on duty in the First Precinct. The police business of the entire city, to a great extent, centers in this building; the Police Court is held here and all prisoners are brought here for trial.

With the increase of business as shown by the reports annually submitted to your Honorable Body it became a matter of the greatest difficulty to do justice to the Department in the cramped and limited quarters of the Central. The prisons are connected with the main building and the foul odors of the former are the cause of much sickness to the officers throughout the whole building, and who are compelled to inhale the baneful stench; the whole building is infested

n, coming from the prisoners as they are escorted through building. The prisons are a disgrace to the city, it being possible to keep them clean from the vermin that infest them. Board has tried every means to disinfect, cleanse and otherwise these prisons in decent condition, but with the lack of cracks and imperfect construction of the cells, it has been to do so, and thus far all efforts to this end have proven . In their present condition these cells and prisons, in- ing simply places for the retention and confinement of per- guiltless of crime and unfortunate, and the majority held enses against the ordinances of the city, are places of tor- ommon decency demands that the whole building should be e ground and a new one erected in its place.

s connection it may be proper to call your attention to the e Second, Third and Eighth Precinct stations are still pro- stone cells, which should be substituted with iron cages as expense can be provided for. The great advantage of over others consists in their perfect ventilation, easy to be and impossible for vermin to find places to breed, the ad- seeing what every prisoner is doing at all times, as one man ough every cell from any part of the hallway around the ng it impossible for prisoners to escape or commit suicide.

Fourth Precinct the city has no station house, rooms being occupied for police purposes, and it is very desirable that building be erected at the earliest possible day and as the represents a rapidly growing population, another Precinct established and a station house be erected in the vicinity of enue, between Payne avenue and St. Clair street.

Board again recommends the erection of a suitable station in t precinct.

rooms rented in the Eighth Precinct are totally unfit for po- ses and sufficient appropriation should be made for the of the new station on the premises recently purchased at the Detroit and State streets. Plans of same have been and contracts in the amount of \$5,000 have been awarded

for the foundations and basement, and at least \$20,000 to \$25,000 more will be required to complete the building, which amount should be provided as soon as possible so as to have the station ready for occupancy before the next winter.

The condition of the Police Court Fund, from which all repairs and costs of building station houses is paid, has been such as to prevent any large outlay for the above named improvements.

Very respectfully,

B. D. BABCOCK, Mayor,
JAMES McNEIL,
JOHN H. BRADNER,
I. L. MORRIS,
FRANK D. BOSWORTH,

Commissioners.

JOHN VANEK, *Secretary.*

Secretary's Report.

OFFICE OF THE
SECRETARY OF THE BOARD OF POLICE COMMISSIONERS, }
CLEVELAND, January 1, 1889.

Honorable Board of Police Commissioners:

GENTLEMEN:—I herewith submit the following report of the *per-*
operations of the force of the Police Department, and the
ion of the several funds and accounts for the year ending De-
r 31st, 1888.

Very respectfully,

JOHN VANEK, *Secretary.*

the 1st day of January, 1888, as appears from the last report,
ce Force of the city, including all other officers and employes
Department, consisted of 1 Superintendent, 1 Deputy Superin-
4 Captains, 15 Lieutenants, 8 Detectives, 10 Sergeants, 182
en, 1 Secretary, 1 Surgeon, 1 Superintendent Telegraph and
ne, 1 Lineman, 3 Operators, 3 Janitors, 2 Firemen, and 2
; total, 235.

total number of men constituting the Police Force at date is
all other officers and employes of the Department 19; total,

1	Superintendent.
1	Deputy Superintendent.
3	Captains.
15	Lieutenants.
10	Detectives.
10	Sergeants.
182	Patrolmen.
1	Secretary.
1	Surgeon.
1	Matron.
1	Superintendent Telegraph and Telephone.
1	Lineman.
3	Operators.
4	Drivers of Patrol Wagons.
6	Janitors.
1	Fireman.

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Being a decrease of 1 Captain, 1 Matron and 1 Fireman, total, 3; and an increase of 2 Detectives, 4 Drivers of Patrol Wagons and 3 Janitors, total 9.

This force and officers are distributed for duty in the different places and precincts throughout the city as follows:

POLICE HEADQUARTERS.

CITY HALL.

Superintendent, Room 17	1
Secretary, Room 15	1
Surgeon, Room 15	1
Superintendent Telegraph and Telephone, Room 16 .	1
Lineman, Room 16	1
Operators, Room 16	3
Total	8

I. DISTRICT.

FIRST PRECINCT STATION.

CHAMPLAIN STREET.

At this station there are 79 officers, men and other employees, as

Deputy Superintendent	1
Captain	1
Subtenants	3
Detectives	5
Sergeants	3
Patrolmen	61
Drivers	3
Clerks	1
Stationer	1
Total.	79

of the Patrolmen acting as Sergeant.

BOUNDARIES OF FIRST PRECINCT.—From the Lake Shore along
to Euclid avenue, along Euclid avenue to Brownell street,
Brownell street to Woodland avenue, along Woodland avenue
street, along Cross street to the river, up the river to the N.
O. R. R. bridge and track, along the track west, to Colum-
bia bridge and Cuyahoga river, along the river down to the
lake shore to Erie street.

SECOND PRECINCT STATION.

CORNER OF OREGON AND OLIVER STREETS.

At this station there are 17 officers and men, as follows:

Subtenants	2
Patrolmen	14
Driver	1
Total.	17

of the Patrolmen acting as Sergeant.

BOUNDARIES OF SECOND PRECINCT.—From Erie street along the lake shore to Case avenue, along Case to Euclid avenue, along Euclid avenue to Erie street and along Erie street to the lake shore.

II. DISTRICT.

THIRD AND FIFTH PRECINCT STATION.

FOREST STREET.

At this station there are 27 officers and men, as follows:

Captain	1
Lieutenants	2
Detectives	2
Patrolmen	21
Janitor	1
Total.	27

Two of the Patrolmen acting as Sergeants.

BOUNDARIES OF THIRD PRECINCT.—From Brownell street along Euclid avenue to Sterling avenue, along Sterling avenue to Garden street, along Garden street to Willson avenue, along Willson avenue to Kingsbury Run, along Kingsbury Run west to the Cuyahoga river, along the river down to Cross street, along Cross street to Woodland avenue, along Woodland avenue to Brownell street, along Brownell street to Euclid avenue.

BOUNDARIES OF FIFTH PRECINCT.—From corner of Willson avenue and Garden street, along Garden street to its end, and on a line with Garden street to the city limits, along the city limits to Kinsman street, to the south branch of Kingsbury Run, along the run to Willson avenue, and along Willson avenue to Garden street.

FOURTH PRECINCT STATION.

WILLSON, NEAR EUCLID AVE.

At this station there are 16 officers and men, as follows:

Lieutenants	2
Patrolmen	14
Total.	16

One of the Patrolmen acting as Sergeant.

ARIES OF FOURTH PRECINCT.—From the lake shore along
e, to Euclid avenue, along Euclid avenue to Sterling ave-
Sterling avenue to Garden street, along Garden street on a
id street to city limits, along the city limits to the lake
the lake shore to Case avenue.

SIXTH PRECINCT STATION.

WILLSON, NEAR BROADWAY.

station there are 14 officers and men, as follows:

enant	1
eants	2
olmen	11
Total.	14

f the Patrolmen acting as Sergeant.

DARIES OF SIXTH PRECINCT.—From the river and Kings-
along the Run to the north branch of said Run, and then
south branch of Kinsman street, to the city limits, along the
Union street, along Union street to Ackley avenue, along
venue to Fleet street, to the city limits, along the limits to the
along the river to Kingsbury Run.

SEVENTH PRECINCT STATION.

WALES STREET.

is station there are 12 officers and men, as follows:

utenant	1
ergeant	1
ontrolmen	10
Total.	12

of the Patrolmen acting as Sergeant.

DARIES OF SEVENTH PRECINCT.—From Ackley avenue and
et, along Union street to the city limits, along the limits to
t, along Fleet street to Ackley avenue, and along Ackley
Union street.

III. DISTRICT.

EIGHTH PRECINCT STATION.

DETROIT STREET.

At this station there are 36 officers and men, as follows :

Captain.	1
Lieutenants	2
Detectives	3
Sergeants	2
Patrolmen	27
Janitor	1
Total.	<u>36</u>

BOUNDARIES OF EIGHTH PRECINCT.—From the lake shore up Cuyahoga river to the Columbus street bridge and the N. Y., P. & O. R. R. track, along said track to the crossing of C. C. C. & I. R. R. track, along the C. C. C. & I. R. R. track to Burton street, along Burton street to Randall street along Randall street, to Harbor street, along Harbor street to Franklin avenue, along Franklin avenue to the city limits, along the city limits to the lake shore, along the lake shore to the Cuyahoga river.

NINTH PRECINCT STATION.

BARBER AVENUE.

At this station there are 12 officers and men, as follows :

Lieutenant	1
Sergeants	2
Patrolmen	9
Total.	<u>12</u>

BOUNDARIES OF NINTH PRECINCT.—From the N. Y., P. & O. R. R. track along C. C. C. & I. R. R. track to Burton street, along Burton street to city limits, along city limits to the Cuyahoga river, down the river to the N. Y., P. & O. R. R. bridge and track, along said track to the crossing of the C. C. C. & I. R. R. track.

TENTH PRECINCT STATION.

SWISS STREET.

At this station there are 12 officers and men, as follows:

Lieutenant	1
Sergeant	1
Patrolmen	10
Total	12

One of the Patrolmen acting as Sergeant.

BOUNDARIES OF TENTH PRECINCT.—From Harbor street and Franklin avenue, along Franklin avenue to the city limits, along the city limits to Burton street, along Burton street to Randall street, along Randall street to Harbor street and along Harbor to Franklin avenue.

PATROL STATION NO. 1.

76 CHAMPLAIN STREET.

At this station there are 4 Patrolmen, of which 2 are acting as Sergeants

ing as Sergeants	4
Drivers	2
Total	6

PATROL STATION NO. 2.

148 HANOVER STREET.

At this station there are 4 Patrolmen, of which 2 are acting as Sergeants

acting as Sergeants	4
Drivers	2
Total	6

THE FORCE, ON DECEMBER 31, 1888.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Superintendent.....	J. W. Schmitt.....	Germany	May 1, 1866.....	
Deputy Superintendent	James McMahon.....	Ireland.....	May 1, 1866.....	
Captain.....	Henry Hoehn.....	Germany	May 1, 1866.....	
"	E. K. Hutchinson.....	United States	April 12, 1876	
"	M. F. Madigan.....	Ireland.....	May 1, 1866	
Lieutenant	Conrad Koch.....	Germany	May 30, 1866	
"	Frank Wagner.....	"	June 23, 1869	
"	John Schrier.....	United States	April 6, 1870.....	
"	John Barrow.....	"	August 8, 1867	
"	M. English.....	Ireland.....	April 8, 1871.....	
"	S. Kushman.....	United States	April 25, 1868	
"	J. P. Norton.....	Ireland	May 8, 1868	
"	Thomas Thompson.....	England.....	May 15, 1867	
"	A. S. Gates	United States	November 13, 1871	
"	Josiah Johnson.....	"	July 19, 1871.....	
"	John Dunn	"	December 30, 1870.....	
"	George Kadel.....	Germany	April 29, 1870	
"	George W. Broadwell.....	United States	April 14, 1877	Promoted from Sergeant, May 8, 1888.
"	P. A. Seales	"	November 2, 1871	Promoted from Sergeant, May 8, 1888.

Lieutenant	Jacob Stein.....	Germany.....	July 18, 1868.....	Promoted from Sergeant, May 8, 1868.
Detective	Charles McHannan.....	United States.....	May 8, 1868.....	
"	J. J. Lohrer.....	Germany.....	May 1, 1866.....	
"	A. A. Lawrence.....	England.....	May 1, 1866.....	
"	John Reeves.....	Ireland.....	May 13, 1875.....	
"	F. Gallagher.....	".....	September 7, 1871.....	
"	F. R. Humphrey.....	England.....	September 7, 1871.....	
"	A. McMillan.....	Canada.....	February 23, 1872.....	
"	E. T. Grainger.....	United States.....	September 7, 1871.....	
"	Francis Douglass.....	Ireland.....	November 13, 1871.....	
"	John F. Sprosty.....	Bohemia.....	November 6, 1872.....	Promoted from Patrolman, May 8, 1868.
Sergeant	A. Eitelman.....	Germany.....	May 1, 1866.....	
"	E. W. Bradley.....	United States.....	April 29, 1875.....	
"	John Burns.....	Ireland.....	May 8, 1868.....	
"	John O'Laughlin.....	".....	February 12, 1873.....	
"	Patrick Corkill.....	".....	April 13, 1869.....	
"	Charles Tressel.....	Germany.....	November 29, 1869.....	
"	J. F. Megerth.....	Switzerland.....	May 2, 1872.....	Promoted from Acting Sergeant, May 8, 1868.
"	Geo. J. Griffin.....	United States.....	July 12, 1870.....	

THE FORCE, ON DECEMBER 31, 1888.—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Sergeant.....	E. Shipman.....	England.....	January 31, 1871.....	Promoted from Acting Sergeant, May 8, 1888.
".....	H. A. Corder.....	United States.....	July 29, 1868.....	Promoted from Acting Sergeant, May 8, 1888.
Patrolman No. 1.....	William Anthony.....	".....	June 27, 1873.....	Detailled at N. Y., P. & O. R. R. Depot.
" 2.....	Henry Brunner.....	".....	March 11, 1882.....	
" 3.....	Joseph Stadler.....	Germany.....	September 16, 1876.....	
" 4.....	C. E. Parker.....	United States.....	December 28, 1882.....	
" 5.....	J. W. Clark.....	".....	May 20, 1884.....	
" 6.....	A. J. Marx.....	Germany.....	September 14, 1870.....	
" 7.....	J. T. Bashold.....	".....	January 8, 1875.....	
" 8.....	Geo. B. Erwin.....	United States.....	April 19, 1881.....	
" 9.....	A. Manzelman.....	Germany.....	April 20, 1872.....	
" 10.....	Philip Siegrist.....	".....	May 8, 1888.....	
" 11.....	M. Ostermeyer.....	".....	August 7, 1867.....	
" 12.....	B. Rosenfelder.....	".....	May 1, 1866.....	
" 13.....	Leo J. Kolaszewski.....	Poland.....	May 8, 1888.....	
" 14.....	D. W. McCready.....	United States.....	March 6, 1878.....	Detailled as Superintendent's Clerk.
" 15.....	C. C. Thomas.....	".....	September 21, 1872.....	
" 16.....	John Veigel.....	".....	December 27, 1884.....	
" 17.....	Wm. Hildebrand.....	Germany.....	September 21, 1872.....	Detailled as Turnkey, at Central Station.

Patrolman No.	Patrolman	Country	Period	Remarks
18	Philip Haggerty	Ireland	May 1, 1866	Detailed at Union Passenger Depot.
19	Wm. Bradford	England	June 17, 1864	
20	Michael Fergus	United States	September 11, 1868	
21	Peter Wilson	England	April 9, 1873	
22	Joseph O'Brien	Ireland	December 28, 1882	
23	Wm. Mylechraine	Isle of Man	February 24, 1872	
24	John Buechler	Germany	May 1, 1872	Acting as Sergeant, at Patrol Station No. 2.
25	Henry Jacobson	"	May 8, 1888	
26	Joseph Krenzel	"	December 2, 1875	
27	P. J. Neary	Ireland	April 17, 1888	
28	T. Hathaway	United States	April 20, 1872	
29	James Hanley	Ireland	April 22, 1886	
30	John Williams	Nova Scotia	April 20, 1872	Detailed at Patrol Station No. 1.
31	W. W. Robinson	Canada	December 18, 1885	
32	Wm. Vogel	Germany	July 21, 1871	
33	G. A. Domino	"	January 17, 1875	
34	Mathew Mareh	Bohemia	January 13, 1885	
35	W. R. Hayman	England	May 1, 1883	
36	Chas. O. Klau	United States	May 2, 1882	Acting as Sergeant, at Patrol Station No. 2.

THE FORCE, ON DECEMBER 31, 1888.—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 37.	Mathew Conway.....	United States.....	May 8, 1838.....	Detailed to Secretary. Acting as Sergeant, at Patrol Station No. 1.
" 38.	Michael Mullee.....	Ireland.....	October 8, 1838.....	
" 39.	M. F. Wood.....	United States.....	May 20, 1877.....	
" 40.	J. M. Brooks.....	Bavaria.....	May 4, 1880.....	
" 41.	S. D. Mell.....	United States.....	April 30, 1873.....	
" 42.	E. Durchschlag.....	".....	December 7, 1886.....	
" 43.	Chas. N. Lyle.....	Canada.....	May 8, 1888.....	
" 44.	Christ. Hennes.....	Germany.....	September 23, 1879.....	
" 45.	Wm. M. Tucker.....	United States.....	June 3, 1881.....	
" 46.	Jacob Gause.....	Germany.....	May 30, 1866.....	
" 47.	P. O'Malley.....	Ireland.....	June 10, 1875.....	
" 48.	Charles Saunders.....	England.....	January 19, 1886.....	
" 49.	Wm. H. Probst.....	United States.....	February 4, 1886.....	
" 50.	Daniel Mack.....	Ireland.....	October 17, 1882.....	
" 51.	H. T. Felhaber.....	Germany.....	April 6, 1877.....	
" 52.	M. M. McElhanev.....	United States.....	May 4, 1886.....	
" 53.	Wm. Mehner.....	".....	January 20, 1882.....	
" 54.	John O'Donnell.....	Ireland.....	October 28, 1884.....	
" 55.	M. E. O'Malley.....	United States.....	May 8, 1888.....	

Remarks

under Metropolitan Law.

Patrolman No.	Name	Country	Expiration	Remarks
56	Charles Sanders	Germany	February 18, 1887	
57	W. J. Flanigan	United States	May 22, 1879	
58	Herman Prange	Germany	January 19, 1886	
59	Wm. Watt	Scotland	May 18, 1886	
60	P. J. Carbeck	United States	August 1, 1882	
61	John C. Kampfe	"	November 20, 1883	
62	James Lennahan	Ireland	July 19, 1882	
63	E. A. Boynton	United States	January 3, 1878	
64	H. W. Motter	"	May 14, 1884	
65	John Sprackel	Germany	November 26, 1874	Acting as Sergeant.
66	August Sommer	"	December 24, 1883	
67	Fred. Doering	United States	March 6, 1888	
68	John Quinn	Ireland	May 16, 1871	
69	Alex. Skarupsky	Poland	December 18, 1885	
70	J. H. Koehler	United States	May 4, 1886	
71	W. S. Rowe	"	May 18, 1880	
72	Henry Carroll	Ireland	June 15, 1886	
73	Paul J. Luehrs	Holland	April 28, 1872	
74	T. H. Badgingmer	United States	March 6, 1888	Detailed as License Officer.

THE FORCE, ON DECEMBER 31, 1888.—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 75.....	F. H. Brooks.....	United States.....	July 22, 1884.....	
" 76.....	W. Chapman.....	".....	January 19, 1886.....	
" 77.....	G. F. Mog.....	".....	August 3, 1881.....	Acting as Sergeant.
" 78.....	Martin Reddy.....	Ireland.....	September 18, 1883.....	
" 79.....	J. W. Varner.....	United States.....	January 21, 1878.....	Acting as Sergeant.
" 80.....	J. C. Denzer.....	".....	November 27, 1878.....	Acting as Sergeant, at Patrol Station No. 1.
" 81.....	Alfred Walker.....	England.....	June 29, 1886.....	
" 82.....	James F. Kernan.....	United States.....	April 12, 1887.....	
" 83.....	John Caldwell.....	".....	April 15, 1884.....	
" 84.....	F. B. Eustace.....	".....	April 19, 1875.....	
" 85.....	John McCormack.....	Ireland.....	April 3, 1874.....	
" 86.....	A. J. Barnes.....	United States.....	September 7, 1871.....	
" 87.....	A. M. Blood.....	".....	November 26, 1874.....	Acting as Sergeant.
" 88.....	Daniel Cantillon.....	Ireland.....	January 23, 1875.....	
" 89.....	John Britton.....	".....	December 24, 1885.....	
" 90.....	L. A. DeCelle.....	United States.....	March 1, 1881.....	
" 91.....	Geo. E. Corner.....	".....	April 20, 1880.....	Acting as Sergeant.
" 92.....	M. F. Silsby.....	".....	March 26, 1873.....	
" 93.....	M. W. Murphy.....	".....	September 7, 1871.....	

Patrolman No. 94.....	Patrik Kennedy.....	Ireland.....	June 10, 1875.....	Detailed at Patrol Station No. 1.
" 95.....	Henry Kramer.....	United States.....	December 24, 1883.....	
" 96.....	N. H. Sheehan.....	Ireland.....	April 12, 1887.....	
" 97.....	Henry Seibel.....	United States.....	February 5, 1873.....	
" 98.....	Joseph Ralph.....	Ireland.....	May 8, 1888.....	
" 99.....	F. J. Lambert.....	Germany.....	November 2, 1871.....	
" 100.....	F. C. Lauser.....	".....	November 23, 1872.....	
" 101.....	Charles Fischer.....	".....	July 17, 1874.....	
" 102.....	Frank McDonnell.....	United States.....	October 7, 1881.....	
" 103.....	Frank Kulas.....	Bohemia.....	May 16, 1878.....	
" 104.....	John H. Mangan.....	Ireland.....	September 18, 1875.....	
" 105.....	Charles McMasters.....	United States.....	November 27, 1878.....	Acting as Sergeant.
" 106.....	George Demaline.....	".....	March 18, 1880.....	
" 107.....	Charles Dangler.....	".....	April 9, 1877.....	
" 108.....	Geo. D. Scott.....	".....	September 21, 1878.....	
" 109.....	T. J. Gallagher.....	Ireland.....	June 5, 1888.....	
" 110.....	Wm. Schneider.....	Germany.....	June 3, 1881.....	
" 111.....	W. A. Sherman.....	United States.....	November 6, 1872.....	
" 112.....	D. T. Hayes.....	Ireland.....	April 15, 1884.....	

THE FORCE, ON DECEMBER 31, 1888.—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 113.....	Stewart Hart.....	Canada.....	November 13, 1883.....	Detailed at Union Passenger Depot.
" 114.....	John McGraw.....	Ireland.....	April 6, 1877.....	
" 115.....	William O'Brien.....	".....	January 13, 1873.....	
" 116.....	Ernest A. Bleasdale.....	United States.....	September 18, 1888.....	
" 117.....	Jacob Rees.....	".....	June 10, 1882.....	
" 118.....	Philip Heege.....	Germany.....	February 5, 1873.....	Detailed for Court Duty.
" 119.....	August Brandt.....	".....	April 22, 1886.....	
" 120.....	Silas Pierce.....	United States.....	April 22, 1886.....	
" 121.....	M. H. Stofer.....	".....	February 5, 1873.....	Detailed for Court Duty.
" 122.....	James T. Madden.....	".....	December 22, 1883.....	
" 123.....	Wm. Schneearline.....	".....	November 26, 1874.....	Detailed for Court Duty.
" 124.....	John Schmunk.....	".....	January 15, 1881.....	
" 125.....	S. L. Miller.....	".....	January 25, 1872.....	Acting as Sergeant.
" 126.....	Charles Schroeder.....	".....	November 27, 1878.....	
" 127.....	Frederick Fischer.....	Germany.....	December 20, 1887.....	
" 128.....	M. Cunneen.....	Ireland.....	July 3, 1883.....	
" 129.....	Wm. Jenkins.....	England.....	January 20, 1882.....	
" 130.....	John McCabe.....	Ireland.....	July 2, 1883.....	Acting as Sergeant.
" 131.....	J. J. Doyle.....	Canada.....	June 6, 1882.....	

Patrolman No.	Patrolman	Birthplace	Arrested	Charge
132.....	M. J. Regan.....	Ireland.....	June 6, 1882.....	under Metropolitan Law.
" 133.....	Henry Hageman.....	United States.....	July 13, 1886.....	
" 134.....	E. R. Bennett.....	".....	November 7, 1882.....	
" 135.....	John Carroll.....	Ireland.....	November 7, 1882.....	
" 136.....	Edward Corrigan.....	".....	August 9, 1887.....	
" 137.....	John Gavin.....	".....	November 3, 1885.....	
" 138.....	Parker Harc.....	United States.....	November 7, 1882.....	
" 139.....	Thomas Commerford.....	Ireland.....	December 31, 1886.....	
" 140.....	J. W. Flavin.....	United States.....	December 28, 1882.....	
" 141.....	Geo. J. Keidel.....	".....	July 10, 1883.....	
" 142.....	Michael O'Hara.....	".....	August 7, 1883.....	
" 143.....	Joseph Whittaker.....	".....	November 13, 1883.....	
" 144.....	John J. Connell.....	".....	December 20, 1887.....	
" 145.....	S. S. Minor.....	".....	August 7, 1883.....	
" 146.....	John J. Albren.....	".....	April 27, 1886.....	
" 147.....	C. J. Creter.....	Germany.....	August 7, 1883.....	
" 148.....	Frank Iles.....	Canada.....	August 7, 1883.....	
" 149.....	Patrick Ruddy.....	Ireland.....	August 7, 1883.....	
" 150.....	John Miller.....	United States.....	August 7, 1883.....	

THE FORCE, ON DECEMBER 31, 1888.—Continued.

Rank.	Name.	Nativity.	First entry into Service under Metropolitan Law.	Remarks.
Patrolman No. 151.....	Hugh Marterson.....	United States.....	August 7, 1883.....	Detailed at Patrol Station No. 2.
" 152.....	John Corrigan.....	Ireland.....	August 7, 1883.....	
" 153.....	F. E. Brown.....	United States.....	February 21, 1888.....	
" 154.....	James Cullen.....	Ireland.....	August 7, 1883.....	
" 155.....	Geo. A. Kadel.....	United States.....	June 3, 1886.....	Detailed at Patrol Station No. 2.
" 156.....	Anton Dielman.....	".....	August 7, 1883.....	
" 157.....	Chas. L. Weisbarth.....	".....	March 20, 1888.....	
" 158.....	Richard Barrow, Jr.....	".....	February 18, 1887.....	
" 159.....	Wm. Fitzgerald.....	".....	August 7, 1883.....	
" 160.....	John E. Gallagher.....	".....	July 17, 1888.....	
" 161.....	August Wedig.....	Germany.....	August 7, 1883.....	
" 162.....	C. W. Robinson.....	Canada.....	August 7, 1883.....	
" 163.....	E. F. Washington.....	United States.....	August 7, 1883.....	
" 164.....	A. McKnight.....	".....	August 7, 1883.....	
" 165.....	James Doran.....	Canada.....	April 15, 1884.....	Detailed at Patrol Station No. 2.
" 166.....	John Mahony.....	".....	August 21, 1883.....	
" 167.....	Joseph Sweeney.....	Ireland.....	August 21, 1883.....	
" 168.....	Kinny Fife.....	United States.....	June 14, 1887.....	
" 169.....	D. J. Cook.....	".....	September 16, 1885.....	

Patrolman No.	Patrolman	Country	Date
170	H. M. Merthon.	United States	January 11, 1887
"	M. K. Cary	"	October 22, 1888
"	Frank V. Bush	Poland	June 21, 1887
"	M. Masterson	Ireland	January 11, 1887
"	C. L. Meacham	United States	January 11, 1887
"	John Anderson, Jr.	"	January 13, 1887
"	Wm. Harrison	Ireland	March 3, 1887
"	James McNally	United States	March 15, 1887
"	Patrick Breheny	Ireland	March 15, 1887
"	Wm. McAleer	"	March 22, 1887
"	R. C. McDonnell	United States	March 15, 1887
"	Frank A. Kelly	"	March 15, 1887
"	P. W. O'Reilly	Ireland	March 15, 1887

NATIONALITY OF MEMBERS OF THE POLICE FORCE.

BIRTH PLACE.	
United States.....	104
Ireland	49
Germany.....	39
England.....	10
Canada	9
Bohemia.....	3
Scotland.....	1
Poland.....	3
Isle of Man.....	1
Switzerland.....	1
Heligoland.....	1
Nova Scotia.....	1
Total	222

ICERS AND EMPLOYES OF THE DEPARTMENT.

Rank.	Name.	Appointed.	Remarks.
	John Vanek.....	July 1, 1887.	Office, Room 15, City Hall.
	F. B. Norton.....	Sept. 13, "	" " 15, "
	Anna Clark.....	Sept. 13, "	At Central Station.
ph & Telph'ne	W. M. Grant.....	Aug. 2, "	Office, Room 16, City Hall.
	Jerry Murphy.....	Aug. 2, "	" " 16, "
	Thomas McNeil.....	June 7, "	" " 16, "
	J. C. Hutchinson....	Aug. 16, "	" " 16, "
	E. H. McLean.....	Aug. 1, 1888.	" " 16, "
	J. W. Morgan.....	Oct. 2, "	Patrol Station No. 1.
	Frank Grime.....	Oct. 2, "	" " " 1.
	Courtney B. Lee.....	Oct. 2, "	" " " 2.
	L. E. Bouker.....	Oct. 2, "	" " " 2.
	C. P. Connant.....	April 23, "	At Central Station.
	Charles Rugger.....	April 23, "	" " "
	John F. Chaffin.....	Oct. 2, "	" " "
	O. Wetzel.....	June 30, 1885.	At 3rd Precinct Station.
	Alex. Morison.....	Feb. 21, 1888.	" 8th " "
	D. D. Seely.....	May 15, "	" 2nd " "
	John Simpson.....	Oct. 2, "	" Central Station.

CHANGES IN THE DEPARTMENT DURING THE YEAR.

	Superintendent.	Deputy Superintendent	Captains.	Lieutenants.	Detectives.	Sergeants.	Patrolmen.	Secretary.	Surgeon.	Supt. Telg ph & Tel'ne.	Linenan.	Operators.	Janitors.	Firemen.	Matrons.	Drivers.	Total.
Remainiug Dec. 31, 1887.....	1	1	4	15	8	10	182	1	1	1	1	3	3	2	2		
Appointed				3	1	3	20					1	5	1		4	
Reduced to rank.....					1												
Total increase.....	1	1	4	18	10	13	202	1	1	1	1	4	8	3	2	4	274
Resigned.....							1					1	1				
Dismissed.....							4						1	2	1		
Pensioned				3			9										
Promoted						3	4										
Office abolished.....			1														
Died							2										
Total decrease.....			1	3		3	20					1	2	2	1		33
Remaining Dec. 31, 1888.....	1	1	3	15	10	10	182	1	1	1	1	3	6	1	1	4	241

PROMOTIONS OF MEMBERS OF THE FORCE DURING
THE YEAR.

Rank.	Name.	Promoted to	Date.
Sergeant.....	George W. Broadwell.....	Lieutenant.....	May 8, 1888.
Sergeant.....	P. A. Searles.....	Lieutenant.....	" "
Sergeant.....	Jacob Stein.....	Lieutenant.....	" "
Acting Sergeant.....	Geo. J. Griffin.....	Sergeant.....	" "
Acting Sergeant.....	E. Shipman.....	Sergeant.....	" "
Acting Sergeant.....	H. A. Cordes.....	Sergeant.....	" "
Policeman.....	J. H. Mangan.....	Acting Sergeant.....	" "
Policeman.....	G. F. Mog.....	Acting Sergeant.....	" "
Policeman.....	J. W. Varner.....	Acting Sergeant.....	" "
Policeman.....	John F. Sprosty.....	Detective.....	" "
Policeman.....	C. O. Klaue.....	Acting Sergeant.....	Oct. 2, 1888.

RESIGNATIONS DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 171.....	W. R. Griffin.....	October 22, 1888.
Operator.....	E. C. Lipps	August 1, 1888.
Janitor.....	F. E. Brown	February 21, 1888.

DISMISSALS OF MEMBERS OF THE FORCE DURING
THE YEAR.

Rank.	Name.	Date.	Cause.
Patrolman No. 153..	George Stokes.....	February 18, 1888.	For conduct unbecoming an officer.
" 157..	M. E. Brady.....	March 6, "	For neglect of duty.
" 38.	H. A. Hibbard.....	September 11, "	For neglect of duty.
" 116..	Charles Miller.....	September 11, "	For intoxication.

Rank.	No.	Name.	Charge.	Date.	Sentence.
Patrolman	157	M. E. Brady	Feigning sickness	Jan'y 20, 1888.	Acquitted.
"	61	J. C. Kampfe	Intoxication	Feb'y 8,	Indefinitely postponed.
"	163	George Stokes	Conduct unbecoming an officer	" 14,	Found guilty and dismissed from force.
"	98	J. P. Bramley	Bringing liquor to station	Mar. 6,	" " " reprimanded.
"	157	M. E. Brady	Neglect of duty	Feb'y 16,	Postponed.
"	157	M. E. Brady	" "	Mar. 6,	Found guilty and dismissed from force.
"	78	Martin Reddy	Intoxication	" 20,	Indefinitely postponed.
"	62	James Lenahan	"	April 17,	Laid on the table.
"	38	H. A. Hibbard	Neglect of duty	July 17,	Found guilty and reprimanded.
"	38	H. A. Hibbard	" "	Sept. 11,	" " dismissed from force.
"	116	Charles Miller	Intoxication	" 11,	" " "
"	128	Michael Cunneen	Unnecessary violence to prisoner	" 11,	Acquitted.
"	29	James Hanley	" "	" 11,	"
"	142	M. O'Hara	Intoxication and bad conduct	Oct. 2,	"
Detective		E. T. Granger	Striking a prisoner	" 18,	Found guilty and reprimanded.
Patrolman	171	W. R. Griffin	Cowardice	" 25,	Resigned pending trial.
"	150	John Miller	Neglect of duty	Nov. 20,	Found guilty, fined 5 days' pay & reprimanded.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.

Name.	Date.	Rank.	Age.	Nativity.	Former Occupation.	Social Condition.	Remarks.
F. E. Brown	Feb. 21, 1898	Patrolman	33	United States	Janitor	Married	Vice Geo. Stokes, dismissed.
Thos. H. Bidlingmeyer	Mar. 6, "	"	74	"	Railroad	"	" Jacob Meyer, pensioned.
Fred. Doering	"	"	67	"	Fireman	"	" Chas. Ecard, "
Chas. L. Weisbarth	Mar. 20, "	"	157	"	Clerk	"	" M. E. Brady, dismissed.
P. J. Neary	Apr. 17, "	"	27	Ireland	Iron worker	"	" Jacob Hammel, deceased.
W. R. Hayman	May 1, "	"	35	England	Brick-layer	"	" Richard Dunn, pensioned.
Geo. B. Erwin	" 1, "	"	8	United States	Patrolman	"	" Geo. J. Griffin, promoted.
Philip Siegrist	" 8, "	"	10	Germany	Marble cutter	"	" E. Shipman, "
Mathew Conway	" 8, "	"	37	United States	Iron worker	Single	" H. A. Cordes, "
Leo J. Kolaszewski	" 8, "	"	13	Poland	Blacksmith	Married	" K. Dienst, pensioned.
Henry Jacobson	" 8, "	"	25	Germany	Switchman	"	" John Faron, "
Joseph Ralph	" 8, "	"	98	Ireland	Moulder	Single	" J. P. Bramley, pensioned.
M. E. O'Malley	" 8, "	"	55	United States	Laborer	"	" Wm. Sorge, "
Charles N. Lyle	" 8, "	"	43	Canada	Mason	Married	" Geo. W. Willis, "
T. J. Gallagher	June 5, "	"	109	Ireland	Iron worker	Single	" J. F. Sprosty, promoted.
John E. Gallagher	July 17, "	"	160	United States	Laborer	"	" Chas. Duff, deceased.
Michael Fergus	Sept. 11, "	"	20	"	"	Married	" J. J. Mollan, pensioned.
Ernest A. Bleardale	" 18, "	"	116	"	Wire drawer	"	" Chas. Miller, dismissed.
Michael Mullee	Oct. 8, "	"	38	Ireland	Iron worker	"	" H. A. Hibbard, "
M. K. Cary	" 22, "	"	171	United States	Farmer	"	" W. R. Griffin, resigned.

MENTS OF OFFICERS AND EMPLOYES OF THE
DEPARTMENT DURING THE YEAR.

e.	Rank.	Date.	Remarks.
ison.....	Janitor	Feb. 21, 1888...	Vice O. Wetzel, transferred.
.....	"	Apr. 23, " ...	" A. T. Brown, retired.
.....	"	" " ...	" M. O'Mallia, "
.....	"	May 15, " ...	At 2nd Precinct station.
.....	Operator ...	Aug. 1, " ...	Vice E. C. Lippe, resigned.
.....	Driver	Oct. 2, " ...	At Patrol station No. 1.
.....	"	" " ...	" " " " 1.
.....	"	" " ...	" " " " 2.
.....	"	" " ...	" " " " 2.
.....	Fireman....	" " ...	" Central station.
.....	Janitor	" " ...	" " "

OFFICERS RETIRED AND PLACED UPON PENSION PAY ROLL.

During the year 12 officers were retired from active service and placed upon the Police Pension Roll, by reason of being physically incapacitated to perform regular patrol duty, viz :

Patrolman Jacob Meyer, appointed November 13, 1871; retired March 6, 1898.

" Charles Eccard,	" May 8, 1868;	" "	"
" Richard Dunn,	" May 1, 1866;	" May 1,	"
Lieutenant Wm. Tompkins,	" May 1, 1866;	" May 8,	"
" W. R. Simmonds,	" May 15, 1867;	" " 8,	"
" Phillip Anthony,	" December 24, 1870;	" " 8,	"
Patrolman Killian Dienst,	" May 1, 1866;	" " 8,	"
" John Faron,	" May 1, 1866;	" " 8,	"
" J. P. Bramley,	" November 2, 1871;	" " 8,	"
" Wm. Sorge,	" November 13, 1871;	" " 8,	"
" Geo. W. Willis,	" May 1, 1866;	" " 8,	"
" John J. Mollan,	" August 22, 1873;	" Sept. 11,	"

SALARIES OF THE MEMBERS OF THE POLICE DEPARTMENT.

intendent	\$2,300 per year.
Superintendent	1,600 "
nts.....	1,500 "
nants.....	1,160 "
ves.....	1,160 "
nts	1,100 "
as Sergeants.....	1,060 "
men.....	1,000 "
detailed to Superintendent.....	1,100 "
" Secretary.....	1,100 "
on probation.....	70 per month.
ry	1,800 per year.
n.....	1,000 "
intendent Telegraph and Telephone.....	100 per month.
an.....	75 "
ors.....	60 "
.....	35 "
at Central station.....	65 "
3d and 8th precinct station.....	60 "
2d precinct station.....	50 "
nt Janitors at Central station.....	50 "
n at Central station.....	50 "
of Patrol wagons.....	60 "

NUMBER OF DAYS LOST BY SICKNESS, DISABILITY, UNDER
RULE FORTY-FOUR, AND ABSENCE WITH LEAVE
DURING THE YEAR.

Rank.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
Supt.	J. W. Schmitt		6		6
Dep'y Supt.	James McMahon.....	2	12		14
Captain.	Henry Hoehn.....	1	12		13
"	E. K. Hutchinson.....		12		12
"	M. F. Madigan		11		11
Lieutenant.	Conrad Koch.....	2	12		14
"	Frank Wagner.....	1	12		13
"	John Schriber.....		12		12
"	John Barrow.....	1	12		13
"	M. English.....	4	12		16
"	S. Kushman.....	3	12		15
"	J. P. Norton.....		12		12
"	Thomas Thompson.....	3	12		15
"	A. S. Gates	7	12	8	27
"	Josiah Johnson.....	1	12		13
"	John Dunn.....		12	4	16
"	George Kadel.....		12		12
"	George W. Broadwell.....	4	12		16
"	P. A. Searles	2	12		14
"	Jacob Stein.....		12	1	13
Detective.	Charles McHannan.....		12	4	16
"	J. J. Lohrer		12		12
"	A. A. Lawrence.....	1	12		13
"	John Reeves.....		12		12
"	F. Gallagher	107	12		119
"	F. R. Humphrey	32	12	92	136
"	A. McMillan		12		12
"	E. T. Granger	5	12	1	18
"	Francis Douglass.....	2	12		14
	<i>Forward</i>	178	341	110	629

NUMBER OF DAYS LOST BY SICKNESS, ETC.—Continued.

Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
<i>Forward</i>	178	341	110	629
John F. Sprosty.....		12		12
Eitelman.....		12		12
W. Bradley.....		12		12
John Burns.....		12		12
John O'Laughlin.....	6	12		18
Patrick Corkill.....	2	12		14
Charles Tressel.....	32	12	1	45
F. Megerth.....	37	12		49
Geo. J. Griffin.....	15	12		27
Shipman.....	11	12		23
A. A. Cordes.....	2	12	5	19
Wm. Anthony.....	3	12		15
Henry Brunner.....		12		12
Joseph Stadler.....		12		12
E. Parker.....	1	12		13
W. Clark.....		12		12
J. Marx.....		12		12
T. Bashold.....	1	12		13
Geo. B. Erwin.....	1	8	1	10
Manzelman.....		12		12
Philip Siegrist.....		8		8
M. Ostermeyer.....		12		12
R. Rosenfelder.....	1	12		13
Geo. J. Kolaszewski.....		7		7
D. W. McCready.....		12	1	13
C. Thomas.....	11	12	2	25
John Veigel.....	2	12	7	21
Wm. Hildebrand.....		11		11
<i>Forward</i>	303	663	127	1,093

NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Continued.*

Rank. Patrolman No.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
	<i>Forcard</i>	303	663	127	1,093
18	Phillip Haggerty.....	3	12		15
19	Wm. Bradford.....	9	12	1	22
20	Michael Fergus.....		3		3
21	Peter Wilson.....	31	12		43
22	Joseph O'Brien.....	40	9		49
23	Wm. Mylechraine.....	10	12		22
24	John Buechler.....		12		12
25	Henry Jacobson.....	8	8		16
26	Joseph Krenzel.....	6	12		18
27	P. J. Neary.....	1	9	1	11
28	T. Hathaway.....	4	12		16
29	James Hanley.....		12		12
30	John Williams.....	2	12	2	16
31	W. W. Robinson.....	5	12		17
32	Wm. Vogel.....	17	12		29
33	G. A. Domino.....	1	12	1	14
34	Mathew Maresh.....	3	12		15
35	W. R. Hayman.....		8		8
36	Chas. O. Klaue.....	19	12		31
37	Mathew Conway.....		7		7
38	Michael Mullee.....	2	3		5
39	M. F. Wood.....	20	12	3	35
40	J. M. Brooks.....		12		12
41	S. D. Mell.....	3	12		15
42	E. Durchschlag.....		12		12
43	Chas. N. Lyle.....		8		8
44	Christ. Hennes.....		12		12
45	Wm. M. Tucker.....		12		12
46	Jacob Ganss.....		12		12
	<i>Forcard</i>	487	970	135	1,592

NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Continued.*

Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
Forcard.....	487	970	135	1,592
W. O'Malley.....		12		12
Chas. Saunders.....	6	12	5	23
Wm. H. Probst.....	3	12		15
Samuel Mack.....	4	12		16
W. T. Felhaber.....		12	1	13
W. M. McElhaney.....		12		12
William Mehner.....	78	12	4	94
John O'Donnell.....	2	12		14
W. E. O'Malley.....	1	8		9
Charles Sanders.....		12		12
W. J. Flanigan.....	2	12		14
Thermann Prange.....	1	12		13
William Watt.....	4	12		16
W. J. Carbeck.....	8	12		20
John C. Kampfc.....	1	12		13
James Lenahan.....	32	12		44
W. A. Boynton.....	12	12	8	32
W. W. Motter.....	9	12	11	32
John Sprankel.....	1	12		13
August Sommer.....	8	12		20
Frederick Doering.....		9		9
John Quinn.....	2	12	1	15
Alex. Skarupsky.....		12		12
W. H. Koehler.....		12		12
W. S. Rowe.....	1	12	3	16
Henry Carroll.....	4	12		16
Paul J. Luehrs.....	1	12	1	14
Chas. H. Bidlingmyer.....		10		10
W. H. Brooks.....	5	12		17
Forcard.....	672	1,309	169	2,150

NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Continued.*

Rank. Patrolman No.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
	<i>Forward</i>	672	1,309	169	2,150
76	W. Chapman.....	9	12		21
77	G. F. McG.....	27	12		39
78	Martin Reddy.....	37	12		49
79	J. W. Varner.....		12	3	15
80	J. C. Denzer.....	1	12		13
81	Alfred Walker.....	1	12		13
82	James F. Kernan.....	1	12		13
83	John Caldwell.....	19	12		31
84	F. B. Eustace.....	1	12		13
85	John McCormack.....	17	11		28
86	A. J. Barnes.....	17	11		28
87	A. M. Blood.....		12		12
88	Daniel Cantillon.....		12		12
89	John Britton.....	4	12		16
90	L. A. DeCelle.....	4	11		15
91	George E. Corner.....		12	3	15
92	M. F. Silsby.....	2	12		14
93	M. W. Murphy.....	5	12		17
94	Patrick Kennedy.....	3	12		15
95	Henry Kramer.....		12		12
96	N. H. Sheehan.....		12		12
97	Henry Seibel.....	13	12		25
98	Joseph Ralph.....	4	7		11
99	F. J. Lambert.....	3	10	1	14
100	F. C. Lauser.....		12		12
101	Charles Fischer.....	70	12	2	84
102	Frank McDonnell.....		12		12
103	Frank Kulas.....	6	12		18
104	John H. Mangan.....	4	12	2	18
	<i>Forward</i>	920	1,647	180	2,747

REPORT OF POLICE DEPARTMENT.

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NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Continued.*

Rank. Patrolman No.	Name.	Sickness and Disability.	Leave under Rule 41.	Absence with Leave.	Total.
	<i>Forward</i>	920	1,647	180	2,747
105	Chas. McMasters.....	3	12	13	28
105	George Demaline.....	6	12		18
107	Charles Dangier.....	11	12		23
108	Geo. D. Scott	6	12		18
109	T. J. Gallagher		7		7
110	Wm. Schneider	7	12		19
111	W. A. Sherman		12	3	15
112	D. T. Hayes	2	12		14
113	Stewart Hart.....	10	12		22
114	John McGraw.....	8	12		20
115	William O'Brien.....		12	4	16
116	Ernest A. Bleasdale		8		3
117	Jacob Rees.....	53	12		65
118	Phillip Heege.....	28	12	3	43
119	August Brandt.....	3	12		15
120	Silas Pierce.....		12	2	14
121	M. H. Stofer.....	1	12		13
122	James T. Madden.....	15	12		27
123	Wm. Schuearline	21	12		33
124	John Schmunk.....	2	12	1	15
125	S. L. Miller.....	16	12		28
126	Chas. Schroeder.....		12		12
127	Frederick Fischer.....		12	1	13
128	M. Cunneen	1	12		13
129	Wm. Jenkins.....	4	12		16
130	John McCabe.....	5	11		16
131	J. J. Doyle	62	11		73
132	M. J. Regan.....	7	12		19
133	Henry Hageman.....	6	11		17
	<i>Forward</i>	1,197	1,978	207	3,382

NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Continued.*

Rank. Patrolman No.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
	<i>Forward</i>	1,197	1,978	207	3,382
134	E. R. Bennett	7	12		19
135	John Carroll.....	9	11		20
136	Edward Corrigan.....	3	12		15
137	John Gavin.....	4	12		16
138	Parker Hare.....	3	12		15
139	Thomas Commerford.....	2	12	2	16
140	J. W. Flavin	6	12	1	19
141	Geo. J. Keidel.....	27	12		39
142	Michael O'Hara.....		12		12
143	Joseph Whittaker.....	11	12		23
144	John J. Connell.....	35	10		45
145	S. S. Minor.....	12	12	1	25
146	John A. Albreu.....		12		12
147	C. J. Creter.....		12		12
148	Frank Iles.....	1	12	6	19
149	Patrick Ruddy		12		12
150	John Miller.....		12		12
151	Hugh Masterson.....		12		12
152	John Corrigan.....	2	12		14
153	F. E. Brown.....	5	11	9	25
154	James Cullen.....	1	12		13
155	George A. Kadel.....	4	12		16
156	Anton Dielman.....	15	12		27
157	Chas. L. Weisbarth.....	1	9		10
158	Richard Barrow, Jr.....	5	12		17
159	Wm. Fitzgerald.....		12		12
160	John E. Gallagher.....		5		5
161	August Wedig.....	10	12		22
162	C. W. Robinson.....	6	12		18
	<i>Forward</i>	1,366	2,312	226	3,904

REPORT OF POLICE DEPARTMENT.

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NUMBER OF DAYS LOST BY SICKNESS, ETC.—Continued.

Rank.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
Patrolman No.					
	<i>Forward</i>	1,366	2,312	226	3,904
163	E. F. Washington.....		11		11
164	A. McKnight.....	5	12		17
165	James Doran.....		12		12
166	John Mahony.....	6	12		18
167	Joseph Sweeney.....		12		12
168	Kinsy Fife.....		12	2	14
169	D. J. Cook.....	22	11	8	41
170	H. M. Mershon.....	45	12		57
171	M. K. Cary.....	1	2		3
172	Frank V. Bash.....		12		12
173	M. Masterson.....	1	12		13
174	C. L. Meacham.....	1	12		13
175	John Anderson, Jr.....		11		11
176	Wm. Harrison.....	128	11		139
177	James McNally.....	1	12		13
178	Patrick Breheny.....	8	10		18
179	Wm. McAleer.....		12		12
180	R. C. McDonnell.....	1	11	10	22
181	Frank A. Kelly.....	1	12		13
182	P. W. O'Reilly.....	54	12		66
Lieutenant	W. R. Simmonds.....	2	4		6
"	Wm. Tompkins.....		5		5
"	Philip Anthony.....		5		5
Pat. No. 13	K. Dienst.....	29			29
" 20	John J. Mollan.....	135	12		147
" 25	John Faron.....		4		4
" 27	Jacob Hammel.....	8	1		9
" 35	Richard Dunn.....	39			39
" 38	H. A. Hibbard.....	17	12	4	33
	<i>Forward</i>	1,870	2,578	250	4,798

NUMBER OF DAYS LOST BY SICKNESS, ETC.—*Concluded.*

Rank. Patrolman No.	Name.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
	<i>Forward</i>	1,870	2,578	250	4,798
Pat. No. 43	Geo. W. Willis		6		6
" 55	Wm. Sorge.....	11	4		15
" 67	Chas. Eocard.....	9			9
" 74	Jacob Meyer.....	59			59
" 98	John P. Bramley	1	4		5
" 116	Chas. Miller.....	106	5		111
" 153	Geo. Stokes.....	2			2
" 157	M. E. Brady.....		12		12
" 160	Chas. Duff.....	64	4		68
" 171	W. R. Griffin	59	12	18	89
	Total.....	2,181	2,625	268	5,074

RECAPITULATION OF THE NUMBER OF DAYS LOST IN EACH MONTH.

Month.	Sickness and Disability.	Leave under Rule 44.	Absence with Leave.	Total.
January.....	274	136		410
February.....	272	138	1	411
March.....	330	117		447
April.....	141	201		342
May.....	153	292	2	452
June.....	147	215	39	401
July.....	182	198	41	421
August.....	190	338	64	592
September.....	129	234	81	444
October.....	131	159	13	303
November.....	78	226	9	313
December.....	149	371	18	538
Total	2,181	2,625	268	5,074

Average daily loss of time by sickness and disability . . . 9¹⁸⁸/₂₂₂

“ “ “ “ Rule 44 11¹⁸⁸/₂₂₂

“ “ “ “ with leave 1⁴⁶/₂₂₂

Total 22¹⁸⁰/₂₂₂

Rule 44 allows each member of the force twelve days leave of absence each year without deduction of pay.

Time lost by sickness and disability is paid in full.

Time lost by absence with leave and by suspension is deducted.

APPOINTMENT AND PROMOTION OF OFFICERS OF CLEVELAND POLICE FORCE.

J. W. SCHMITT, appointed Patrolman; Detective and Acting Chief, May 1, 1866; Superintendent, April 26, 1871; reappointed, May 17, 1876.

JAMES McMAHON, appointed Patrolman and First Sergeant, May 1, 1866; Acting Captain, May 5, 1869; Captain, December 1, 1869; Acting Superintendent, June 20, 1870; reappointed Captain, May 17, 1876; Acting Deputy Superintendent, May 3, 1881; Deputy Superintendent, June 28, 1881.

HENRY HORN, appointed Patrolman, May 1, 1866; Acting Sergeant, July 1, 1871; Sergeant, April 22, 1872; Lieutenant, April 12, 1876; Captain, September 13, 1876.

E. K. HUTCHINSON, appointed Sergeant, April 12, 1876; Acting Lieutenant, May 16, 1882; Lieutenant, December 30, 1882; Captain, September 15, 1885.

M. F. MADIGAN, appointed Patrolman, May 1, 1866; Fifth Sergeant, May 31, 1866; Fourth Sergeant, December 1, 1869; Lieutenant, April 12, 1876; Captain, November 5, 1885.

CONRAD KOCH, appointed Patrolman, May 30, 1866; Roundsman, April 16, 1872; Acting Sergeant, January 25, 1875; Lieutenant, April 12, 1876.

FRANK WAGNER, appointed Patrolman, June 23, 1869; Roundsman, December 4, 1874; Sergeant, April 12, 1876; Lieutenant, September 13, 1876.

JOHN SCHRIEBER, appointed Patrolman, April 6, 1870; Roundsman, August 7, 1873; Sergeant, April 12, 1876; Acting Lieutenant, April 6, 1877; Lieutenant, April 14, 1877.

JOHN BARROW, appointed Patrolman, August 8, 1867; Acting Sergeant, April 6, 1877; Sergeant, April 14, 1877; Lieutenant, February 5, 1884.

MICHAEL ENGLISH, appointed Patrolman, April 8, 1871; Superintendent's Clerk, July 3, 1882; Lieutenant, February 5, 1884.

S. KUSHMAN, appointed Patrolman, April 25, 1868; Roundsman, January 25, 1875; Acting Sergeant, April 22, 1875; Sergeant, April 12, 1876; Lieutenant, February 5, 1885.

JOHN P. NORTON, appointed Patrolman, May 8, 1868; Roundsman, April 16, 1872; reappointed Patrolman, April 12, 1876; Acting Sergeant, December 30, 1882; Sergeant, February 5, 1884; Lieutenant, December 4, 1885.

- THOMAS THOMPSON, appointed Patrolman, May 15, 1867, to September 19, 1870; reappointed Patrolman, November 6, 1872; Acting Sergeant, May 23, 1881; Sergeant, January 20, 1882; Lieutenant, December 4, 1885.
- A. S. GATES, appointed Patrolman, November 13, 1871; Acting Sergeant, January 20, 1882; Sergeant, December 30, 1882; Lieutenant, December 4, 1885.
- JOSIAH JOHNSON, appointed Patrolman, July 19, 1871; Roundsman, October 24, 1877; Sergeant, May 23, 1881; Lieutenant, May 4, 1886.
- JOHN DURN, appointed Patrolman, December 30, 1870; Acting Sergeant, December 30, 1882; Sergeant, December 18, 1883; Lieutenant, May 4, 1886.
- GEORGE KADKL, appointed Patrolman, April 29, 1870, to September, 1872; reappointed Patrolman, May 21, 1873; Acting Sergeant, December 30, 1882; Sergeant, December 4, 1885; Lieutenant, April 12, 1887.
- GEORGE BROADWELL, appointed Patrolman, April 14, 1877; Acting Sergeant, May 16, 1882; Sergeant, December 30, 1882; Lieutenant, May 8, 1888.
- P. A. SEABLES, appointed Patrolman, November 2, 1871; Acting Roundsman, November 6, 1872; Sergeant, April 12, 1876; Lieutenant, May 8, 1888.
- JACOB STIKIN, appointed Patrolman, July 18, 1866, to October 20, 1866; reappointed Patrolman, September 11, 1868; Sergeant, September 13, 1876; Lieutenant, May 8, 1888.
- CHARLES MCHANNAN, appointed Patrolman, May 8, 1868; Acting Sergeant, July 1, 1871; Lieutenant, April 12, 1876; Detective and detailed as Chief of Detectives with rank of Captain, September 15, 1885; the office of Chief of Detectives with rank of Captain abolished May 15, 1888.
- J. J. LOHRER, appointed Patrolman, May 1, 1866; Acting Sergeant, April 16, 1872; Detective, April 12, 1876.
- A. A. LAWRENCK, appointed Patrolman, May 1, 1866; resigned May 9, 1868; reappointed Patrolman, June 19, 1869; Acting Sergeant, April 16, 1872; Detective, April 12, 1876.
- JOHN REEVES, appointed Patrolman, May 13, 1875; Special Detective, July 8, 1875; Detective, April 26, 1876.
- F. GALLAGHER, appointed Patrolman, September 7, 1871; Detective, June 1, 1876.
- F. E. HUMPHREY, appointed Patrolman, September, 1871; Acting Sergeant, July 3, 1882; Sergeant, December 30, 1882; Acting Detective, October 19, 1883; Detective, December 18, 1883.
- A. McMILLAN, appointed Patrolman, February 23, 1872; Acting Detective, July 10, 1883; Detective, December 18, 1883.
- E. T. GRANGER, appointed Patrolman, September 7, 1871; Roundsman, December 4, 1874; Sergeant, April 12, 1876; Lieutenant, May 23, 1881; Detective, May 4, 1886.
- FRANCIS DOUGLASS, appointed Patrolman, November 13, 1871; Detective, April 12, 1887.
- JOHN F. SPROSTY, appointed Patrolman, November 6, 1872; Immigrant Officer, June 23, 1885; Detective, May 8, 1888.
- A. EITELMAN, appointed Patrolman from May 1, 1866, to January 6, 1868; reappointed Patrolman, May 8, 1868; Roundsman, December 2, 1875; Sergeant, April 12, 1876.

- E. W. BRADLEY, appointed Patrolman, April 29, 1875, to April 15, 1876; reappointed Patrolman, August 2, 1876; Acting Sergeant, May 16, 1882; Sergeant, February 5, 1884.
- JOHN BURNS, appointed Patrolman, May 8, 1868; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885.
- JOHN O'LAUGHLIN, appointed Patrolman, February 12, 1873; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885.
- PATRICK CORKILL, appointed Patrolman, April 13, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886.
- CHARLES TRESEL, appointed Patrolman, November 29, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886.
- J. F. MEGERTH, appointed Patrolman, May 2, 1872; Acting Sergeant, December 4, 1885; Sergeant, April 12, 1887.
- GEORGE J. GRIFFIN, appointed Patrolman, July 12, 1870; Acting Sergeant, April 15, 1884; Sergeant, May 8, 1888.
- EDWARD SHIPMAN, appointed Patrolman, January 31, 1871; Acting Sergeant, December 30, 1882; Sergeant, May 8, 1888.
- H. A. CORDES, appointed Patrolman, July 29, 1868; Acting Sergeant, May 4, 1886; Sergeant, May 8, 1888.
- W. A. SHERMAN, appointed Patrolman, November 6, 1872; Acting Sergeant, December 18, 1883.
- JOHN SPRANKEL, appointed Patrolman, November 23, 1874; Acting Sergeant, May 4, 1886.
- A. M. BLOOD, appointed Patrolman, November 26, 1874; Acting Sergeant, June 7, 1887.
- GEORGE E. CORNER, appointed Patrolman, April 20, 1880; Acting Sergeant, June 7, 1887.
- J. M. BROOKS, appointed Patrolman, May 4, 1880; Acting Sergeant, August 23, 1887.
- J. C. DENZER, appointed Patrolman, November 27, 1878; Acting Sergeant, August 23, 1887.
- CHARLES SCHROEDER, appointed Doorman, November 27, 1878; Patrolman, February 15, 1881; Acting Sergeant, August 23, 1887.
- JOHN BUECHLER, appointed Patrolman, May 1, 1872; Acting Sergeant, August 23, 1887.
- J. H. MANGAN, appointed Patrolman, September 18, 1875; Acting Sergeant, May 8, 1888.
- G. F. MOG, appointed Patrolman, August 3, 1881; Acting Sergeant, May 8, 1888.
- J. W. VARNER, appointed Patrolman, January 21, 1878; Acting Sergeant, May 8, 1888.
- C. O. KLAUE, appointed Patrolman, May 2, 1882; Acting Sergeant, October 2, 1888.
- D. W. MCCREADY, appointed Patrolman, March 6, 1878; Superintendent's Clerk, June 23, 1885.
- M. F. WOOD, appointed Patrolman, May 20, 1877; License Officer, June 23, 1885; detailed to Secretary, February 14, 1888.
- W. S. ROWE, appointed Patrolman, May 18, 1880; detailed as License Officer, February 14, 1880.

POLICE PATROL SYSTEM.

This branch of service comprises one fully equipped operating room, at the City Hall, two Patrol Stations, fifty-two sentry boxes and twenty telephones, the whole requiring services of one Superintendent, one lineman, three operators, eight patrolmen, four at each station; two of the patrolmen acting as sergeants, who are in charge of the stock and apparatus in each station, and four drivers, two at each station.

There are four horses and one wagon in service at Patrol Station No. 1 in the 1st Precinct, and four horses and one wagon at Patrol Station No. 2 in the 8th Precinct.

The total expense of maintaining the system and stations, except the salaries, is as follows:

<i>The Patrol System</i>	\$ 879 49
<i>Patrol Station No. 1</i>	2,208 98
<i>Patrol Station No. 2</i>	1,519 51
<i>Total</i>	\$ 4,607 98

The workings of this department for the year have been as follows:

Month.	Runs.	Prisoners.	Transfers.	Hospital.	County Jail.	Mileage.
January	277	206	58	5	.....	250½
February	240	252	18	10	.....	214¾
March.....	265	368	63	8	.....	242½
April	293	245	54	9	.....	266
May	372	554	99	14	.....	347½
June.....	404	386	94	14	9	314¾
July.....	411	416	88	13	3	405¼
August.....	411	416	88	23	.....	334
September.....	391	397	55	15	.....	389¾
October.....	397	408	89	12	.....	465¾
November.....	355	355	92	18	4	437¼
December	358	363	92	15	.....	449
Total.....	4,174	4,426	906	156	16	4,196¼

The sentry boxes are located throughout the city as follows :

- 2—City Hall.
- 3—St. Clair and Ontario streets.
- 4—St. Clair and Bond streets.
- 5—Lake and Erie streets.
- 6—Summit and Wood streets.
- 7—Summit and Seneca streets.
- 8—Lake and Bank streets.
- 9—Union Depot.
- 21—Euclid and Park.
- 23—Ontario and Michigan streets.
- 24—Ontario and Huron streets.
- 25—Central Market House.
- 26—Erie and Eagle streets.
- 27—Erie and Prospect streets.
- 28—Erie and Superior streets.
- 31—N. Y., P. & O. Depot.
- 32—Seneca and Canal streets.
- 34—Central Way and Stone's Levee.
- 35—Commercial and Canal streets.
- 36—Ohio and Hill streets.
- 37—Cross and Hill streets.
- 38—Erie and Woodland avenue.
- 41—Superior and Seneca streets.
- 42—Bank and Frankfort streets.
- 43—St. Clair and Water streets.
- 45—Superior and Water streets.
- 46—River and Front streets.
- 47—E. Main and Meadow streets.
- 48—River and St. Clair streets.
- 51—River and Superior streets.
- 52—Center and Leonard streets.
- 53—Merwin and British streets.
- 54—Columbus and Leonard streets.
- 56—Columbus and Merwin streets.
- 57—Lorain and Smith streets.
- 58—W. River and Russia streets.
- 59—N. Y., C. & St. L. Depot on Pearl street.
- 61—W. River and Main streets.
- 62—Willow street bridge.
- 63—Near Gas House.
- 64—Center and Washington streets.
- 65—Main and Mulberry streets.
- 67—Hanover and Old River streets.
- 68—Detroit and Kentucky streets.
- 71—Lorain and Jersey streets.
- 72—Pearl and Bridge streets.
- 73—Pearl and Franklin avenue.
- 74—Pearl and Lorain streets.
- 75—Detroit and Taylor streets.
- 76—Woodbine and Kentucky streets.
- 78—Lorain and Willett streets.
- 79—Detroit and Weddell streets.

REPORT OF THE RESOURCES AND DISBURSEMENTS OF THE VARIOUS FUNDS FOR THE YEAR ENDING DEC. 31, 1888.

POLICE DEPARTMENT FUND.

1888.	RESOURCES.		
January 1.....	Balance on hand.....	\$ 985 72	
March 9.....	Deducted from Pat Brady's salary.....	8 62	
April 9.....	Proceeds of first half tax for 1887.....	98,791 73	
" 9.....	Liquor tax for 1887.....	907 05	
" 25.....	" " "	37,500 00	
June 13.....	From sale of old horses, etc.....	140 95	
August 6.....	" " " carpet.....	15 00	
September 8...	Last half tax for 1887.....	67,155 63	
" 8...	Delinquent liquor tax for 1886.....	578 14	
" 8...	Liquor tax for 1888.....	18,750 00	
" 17.	" " "	54 08	
" 17.	" " "	28,377 78	
December 22..	On account of first half tax 1888.....	20,000 00	
	Total Resources.....		\$273,264 70
	DISBURSEMENTS.		
January 16....	Pay roll for December, 1887.....	19,949 48	
" 26....	Claims " " "	868 59	
February 13...	Pay roll for January, 1888.....	20,046 73	
" 24....	Claims " " "	1,265 26	
March 9.....	Pay roll for February, 1888.....	20,036 59	
" 23.....	Claims " " "	1,281 27	
April 6.....	Pay roll for March, 1888.....	19,985 10	
" 23.....	Claims " " "	971 64	
May 8.....	Pay roll for April, 1888.....	19,981 06	
" 21.....	Claims " " "	1,174 30	
June 4.....	Pay roll for May, 1888.....	19,951 42	
" 18.....	Claims " " "	1,155 53	
July 9.....	Pay roll for June, 1888.....	19,875 92	
	Forward.....	\$146,542 94	\$273,264 70

POLICE DEPARTMENT FUND.—*Continued.*

1888.	DISBURSEMENTS.— <i>Continued.</i>		
	<i>Forward</i>	\$146,542 94	\$273,264 70
July 27.....	Claims for June, 1888.....	1,051 02.	
August 6.....	Pay roll for July, 1888.	19,838 32	
" 24.....	Claims " " "	754 02	
September 10.	Pay roll for August, 1888	19,789 84	
" 24.....	Claims " " "	966 92	
October 8.....	Pay roll for September, 1888.	19,844 77	
" 22.....	Claims " " "	606 42	
November 5...	Pay roll for October, 1888.....	20,221 14	
" 19.....	Claims " " "	1,230 91	
December 7...	Pay roll for November, 1888.....	20,369 28	
" 17.....	Claims " " "	1,199 70	
	Total Disbursements.....		\$252,415 28
	Balance on hand, January 1, 1889.....		\$ 20,849 42

REPORT OF POLICE DEPARTMENT.

POLICE COURT FUND.

1888.	RESOURCES.	
January 1	Balance on hand.....	\$ 1,079 97
" 16....	Costs and fines in Police Court in December, 1887.....	841 80
" 16....	" " " Workhouse	65 05
February 13....	" " " Police Court in January, 1888.....	542 24
" 21....	" " " Workhouse	44 95
March 8.....	" " " "	36 34
" 12.....	" " " Police Court in February	708 85
" 25.....	Transferred from Market Fund.....	5,000 00
April 17.....	Costs and fines in Police Court in March.....	859 11
May 9.....	" " " " " " April.....	649 16
" 14.....	" " " Workhouse	28 92
June 14.....	" " " Police Court in May.....	3,721 31
" 28.....	" " " Workhouse.....	29 58
July 14.....	" " " Police Court in June.....	1,476 42
" 31.....	Bond forfeited in Police Court... ..	25 00
" 31.....	Costs and fines in Workhouse.....	32 40
August 13.....	" " " Police Court in July.....	1,024 62
" 14.....	" " " Workhouse	18 67
September 8..	For dog license in July.....	2,437 47
" 13..	Costs and fines in Police Court for August.....	1,181 14
" 15..	" " " Workhouse	28 82
" 25..	Warrants No. 611, 622 and 2,203 of 1887 credited back	12 44
October 31....	Costs and fines in Police Court for Sept. and Oct.....	2,422 43
" 31....	Forfeited bails.. ..	24 00
" 31....	Costs and fines in Workhouse for Sept. and Oct.....	45 85
" 31....	For dog licenses in August, September and October..	1,328 73
November 30..	Costs and fines in Police Court for November.....	1,308 98
" 30..	" " " Workhouse " "	26 06
" 30..	Dog license	1 00
December 31..	Costs and fines in Police Court for December.....	1,032 36
" 31..	" " " Workhouse " "	11 56
	Total resources.....	\$ 26,045 23

POLICE COURT FUND.—*Continued.*

1888.	DISBURSEMENTS.		
January 16....	Pay roll of Court officers for December, 1887	\$ 740 00	\$ 26,045 23
" 16....	Witness and juror fees " " "	46 75	
" 26....	Claims for December, 1887.....	452 75	
February 13...	Pay roll for January, "	740 00	
" 13...	Witness and juror fees for January, 1888.	37 00	
" 24....	Claims for January, 1888.....	335 58	
March 9.....	Pay roll for February.....	740 00	
" 9.....	Witness and juror fees for February.....	28 00	
" 23.....	Claims for February.....	120 95	
" 23.....	Pay roll of E. C. Schwan, as acting Judge	41 66	
April 6.....	" for March.....	740 00	
" 6.....	Witness and juror fees for March.....	27 00	
" 23.....	Claims for March.....	109 71	
May 8.....	Pay roll for April.....	740 00	
" 8.....	Witness and juror fees for April.....	71 00	
June 4.....	Pay roll for May.....	857 34	
" 4.....	Witness and juror fees for May.....	79 00	
" 18.....	Claims for May.....	90 90	
July 9.....	Pay roll for June.....	919 38	
" 9.....	Witness and juror fees for June.....	43 00	
" 27.....	Claims for June.....	368 12	
August 6.....	Pay roll for July.....	740 00	
" 6.....	Witness and juror fees for July	66 50	
" 24.....	Claims for July.....	455 39	
" 24.....	Fees of officers collected at Workhouse, 6 months.....	110 25	
September 10.	Pay roll for August.....	772 25	
" 24.....	Claims for August.....	428 54	
October 8.....	Pay roll for September.....	740 00	
" 8.....	Witness and juror fees for September.....	47 50	
" 22.....	Claims for September.....	176 04	
" 22.....	For affidavits in liquor cases.....	2 00	
	<i>Forward</i>	\$10,866 61	\$ 26,045 23

POLICE COURT FUND.—*Continued.*

1888.	DISBURSEMENTS.— <i>Continued.</i>		
	<i>Forwarded</i>	\$10,866 61	\$ 26,045 23
November 5..	Pay roll for October.....	740 00	
" 5..	Witness and juror fees for October.....	37 00	
" 19	Claims for October.....	1,016 69	
December 7...	Pay roll for November.....	740 00	
" 7...	Witness and juror fees for November.....	44 00	
" 17...	Claims for November....	690 97	
	Total.....		\$ 14,135 27
	Balance on hand January 1, 1889.....		\$ 11,909 96

RECAPITULATION OF DISBURSEMENTS.

Pay rolls of Court officers.....	\$ 9,250 63	
Witness and juror fees in Police Court.....	637 00	
Claims authorized by Council.....	2,615 74	
Claims authorized by Board of Police.....	1,631 90	
Total.....		\$ 14,135 27

CONTINGENT FUND.

1888.	RESOURCES.	
January 1.....	Balance on hand.....	\$ 8,982 78
" 16.....	Marshal fees in Police Court, city cases for Dec., 1887	264 00
" 21.....	" " " state " Nov. "	97 42
" 23.....	" " " " " Dec. "	109 31
February 13.....	" " " city " Jan., 1888	113 80
" 28.....	Interest on moneys in the Citizens' Saving and Loan Association.....	36 00
March 1.....	Interest on \$5,000 city bonds, 6 months, 4%.....	100 00
" 12.....	Marshal fees in Police Court, city cases for February	90 35
" 13.....	" " Common Pleas Court and Grand Jury January term.....	60 30
" 24.....	Marshal fees in Police Court, state cases for January	84 25
" 21.....	" " " " " February	59 40
April 17.....	" " " city cases for March.....	116 65
" 24.....	Refunded for telegrams.....	2 25
" 21.....	" by Capt. H. Hoehn.....	34 00
May 9.....	Marshal fees in Police Court, city cases for April	105 35
" 24.....	" " Common Pleas Court and Grand Jury April term.....	26 90
" 26.....	Marshal fees in Police Court, state cases for March...	64 25
" 26.....	" " " " " April.....	61 33
June 14.....	" " " city " May.....	314 19
July 14.....	" " " " " June.....	180 45
" 14.....	Int. on moneys in Citizens' Savin's & Loan Ass'n, 6 mo	60 70
" 24.....	Refunded for telegrams.....	2 68
August 4.....	Marshal fees in Police Court, state cases for May.....	106 72
" 4.....	" " " " " " June.....	69 54
" 13.....	" " " city " " July.....	157 18
" 14.....	" " Grand Jury cases, April term.....	54 80
" 24.....	" " at Workhouse, city cases, 6 months.....	46 50
September 1.....	Interest on \$5,000 bonds, 6 months, 4%.....	100 00
" 10.....	Marshal fees at Workhouse, state cases, 6 months.....	89 51
" 13.....	" " in Police Court, city cases for August...	180 64
	<i>Forward</i>	\$11,780 25

CONTINGENT FUND.—*Continued.*

1888.	RESOURCES.— <i>Continued.</i>		
	<i>Forwaid</i>	\$11,780 25	
October 8.....	Marshal fees in Police Court, state cases for July.....	91 25	
" 8.....	" " " " " " August..	168 02	
" 8.....	Returned for telegrams in Pollard case.....	1 28	
November 20.	Marshal fees in Police Court, city cases for September	109 19	
" 20..	" " " " " " October...	154 49	
December 8...	" " Common Pleas Court, September term	66 53	
" 10..	" " Police Court, state cases for Sept.....	80 09	
" 10..	" " " " " " October..	89 65	
" 24..	" " " city " " Nov	150 03	
" 29..	" " Common Pleas Court, Sept. term.....	44 27	
	Total resources.....		\$ 12,735 05
	DISBURSEMENTS.		
January 30....	Claims paid in January.....	\$ 211 67	
February 29...	" " " February	99 18	
March 28.....	" " " March	51 30	
April 30.....	" " " April.....	92 47	
May 31.....	" " " May	358 47	
June 30.....	" " " June.....	472 83	
July 31.....	" " " July.....	75 15	
August 31.....	" " " August.....	50 20	
September 30.	" " " September.....	103 97	
October 31....	" " " October.....	548 53	
November 30..	" " " November	59 07	
December 29..	" " " December.	182 65	
	Total disbursements.....		\$ 2,305 49
	Balance on hand January 1, 1889.....		\$ 10,429 56

CONTINGENT FUND.—*Continued.*

RECAPITULATION.

RESOURCES.		
Balance on hand January 1, 1888.....		\$ 8,982 78
Marshal fees in Police Court, city cases.....	\$ 1,945 32	
" " " state "	1,081 23	
" " Court of Common Pleas and Grand Jury.....	252 80	
" " collected at the Workhouse.....	136 01	
Interest on moneys invested.....	296 70	
Amounts returned for telegrams, etc.....	40 21	
		3,752 27
Total.....		\$ 12,735 05
DISBURSEMENTS.		
Claims paid during the year.....		2,305 49
Balance on hand January 1, 1889.....		\$ 10,429 56
ASSETS.		
2 City of Cleveland notes, each for \$3,250 at 5%, payable on April 1 and October 1, 1889, respectively; also 1 City of Cleveland note for \$900 at 5%, payable October 1, 1889. Said notes are deposited for safe keeping at the Savings and Trust Company's bank, Cleveland, Ohio.....		
	\$ 7,300 00	
Cash deposited at Citizen's Savings and Loan Association.....	2,767 05	
Cash in the City Treasury.....	205 52	
Cash in Secretary's safe.....	156 99	
Total.....		\$ 10,429 56

EXPENDITURES PAID FROM THE DIFFERENT FUNDS.

Month.	Paid from			Total.
	Police Dep't Fund.	Police Court Fund.	Contingent Fund.	
January.....	\$ 20,818 07	\$ 43 89	\$ 211 67	\$ 21,073 63
February.....	21,312 04	223 90	99 18	21,635 12
March.....	21,317 86	15 00	51 30	21,384 16
April.....	20,956 74	2 00	92 47	21,051 21
May.....	21,155 36		358 47	21,513 83
June.....	21,106 95		472 83	21,579 78
July.....	20,926 94	166 53	75 15	21,168 62
August.....	20,592 34	490 34	50 20	21,072 88
September.....	20,756 76	79 54	103 97	20,940 27
October.....	20,451 19	167 89	548 53	21,167 61
November.....	21,452 05	278 83	59 07	21,789 95
December.....	21,563 98	223 93	182 65	21,975 61
Total.....	\$ 252,415 28	\$ 1,031 90	\$ 2,305 49	\$ 256,352 67

REPORT OF POLICE DEPARTMENT.

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EXPENDITURES OF THE DIFFERENT STATIONS.

	Rent.	Repairs of Stations and Furniture.	Fuel.	Gas and Electric Lighting.	Supplies, Printing and Stationery.	Janitor and Lau- dry Work.	Construction, Stock and Apparatus.	Forge and Horse- shoeing.	Secret Service.	Incidentals.	Rent of Telephones.	Salaries.	Total.
1st Precinct Sta.		\$ 340 59	\$ 902 83	\$ 1,032 29	\$ 384 82	\$ 63 90			\$ 112 65	\$ 480 08			\$ 3,335 16
2d "		213 92	143 33	105 40	88 96	126 23				19 93	20 00		717 79
3d and 5th "		185 85	131 20	114 50	102 89	20 34				18 83	20 00		583 61
4th "	500 00	202 06	109 84	124 90	86 84	209 65				25 18	20 00		1,278 47
6th "		50 15	164 85	109 60	78 68	239 78				28 13	20 00		681 19
7th "		13 25	116 54	116 40	86 15	237 75				16 33	20 00		606 42
8th "	385 00	89 09	336 46	216 40	114 42	35 75				46 98	20 00		1,244 10
9th "		127 10	105 19	80 70	67 27	234 00				13 78	20 00		648 04
10th "		72 09	162 79	64 20	62 00	248 75				25 25	20 00		655 08
Pat. Sta. No. 1...	450 00	143 16	80 46	127 30	97 79	9 53	625 60	639 70		15 44	20 00		2,206 98
" " 2...	100 00	63 83	53 55	84 60	99 70	8 00	738 95	342 65		8 23	20 00		1,519 51
Patrol System....		172 30		142 10	342 75		107 95			68 69	45 70		879 49
Detectives				11 30	69 11				30 45	23 31	20 00		154 17
General Account		195 16	3 75	34 90	542 17				107 44	919 51	128 03		1,980 96
Salaries.....												239,899 70	239,899 70
Total.....	\$ 1,485 00	\$ 1,877 35	\$ 2,310 79	\$ 2,364 59	\$ 2,223 55	\$ 1,433 70	\$ 1,472 50	\$ 962 35	\$ 250 54	\$ 1,718 67	\$ 383 73	\$ 239,899 70	\$ 256,352 67

CLOTH ACCOUNT.

RECEIPTS.			
January 1, 1888	Cash on hand.....	\$ 288 54	
	Amount sale of cloth, etc., during the year.....	1,954 49	
	Total receipts.....		\$ 2,243 03
DISBURSEMENTS.			
	Paid for cloth during the year		1,829 02
	Balance on hand.....		414 01
	Cash on hand.....	170 17	
	Amount outstanding	243 84	
			414 01

SPECIAL POLICEMEN

Appointed during the year, at request of citizens and companies.

Names.	Where Stationed.	Date of Appointment.	Resigned.
Arthur Sheffield.....	Payne ave., Case to Aaron st.....	Jan. 3, 1888	March 20, 1888.
John D. Jones ..	Union Rolling Mill Co.....	" 3, "	
W. H. Guest.....	Riverside Foundry Works.....	" 3, "	
Wm. Cain.....	Cleveland Theatre.....	Feb. 14, "	
A. E. Wright	Miller Electric Co.....	" 14, "	
John O'Brien.....	Merchant Police Co.....	Mar. 2, "	
John O'Donnell.....	" "	" 2, "	
W. H. Davies.....	" "	" 2, "	
Adolph Lefkowitz.....	" "	" 2, "	
H. L. Sweeney.....	" "	" 2, "	
M. J. McIntyre.....	" "	" 2, "	
Fred. Moersch.....	Payne ave., Sterling to Case ave	Apr. 3, "	
Jas. Duggan.....	Cleveland Theatre.....	" 3, "	
John F. Ahl	St. Clair St., Lawrence to Lyman st.	" 23, "	
Geo. Glassford.....	Standard Foundry Mfg. Co.....	" 23, "	
Chas. Brenner, jr.....	Merchant Police Co.....	June 5, "	
Geo. F. Garrett.....	" "	" 5, "	
A. McAdams	" "	" 5, "	
Jas. H. Bingham	" "	" 5, "	
M. McGregor.....	D. & C. Steam Navigation Co.....	" 5, "	July 19, 1888.
Joseph Ruff.....	Sommers Garden.....	" 5, "	
H. S. Gilbreath.....	Prospect st., Perry st. to No. 650	" 19, "	October 5, 1888.
John Odell.....	Union Depot.....	" 23, "	
Otto T. Wagner.....	L. S. & M. S. R. R. shops.....	July 17, "	
Chas. A. Pennell.....	N. Y., C. & St. L. Ry.....	" 26, "	
W. R. Seager.....	Bethel Associated Charities.....	Aug. 7, "	
L. B. Hesse.....	D. & C. Steam Navigation Co.....	" 25, "	Dec. 12, 1888.
Wm. Baker.....	Academy of Music	Sept. 4, "	
Joseph Koslovsky.....	Pulaski's Picnic Park.....	" 4, "	
Chas. Kniola.....	" "	" 4, "	
Jerry B. Killein	Columbia Theatre.....	" 11, "	
Wm. McReynolds.....	Prospect st., Perry to No. 650.....	" 11, "	

SPECIAL POLICEMEN.—*Continued.*

Names.	Where Stationed.	Date of Appointment.	Resigned.
Peter M. Johnson.....	C. & C. R. R. Co.'s yards.....	Sept. 14, 1888...	
Edward Hughes.....	Park Theatre.....	" 18, " ...	
Jas. Brannan.....	Euclid ave., Dunham to Madison ave	Oct. 16, " ...	
G. C. Dresser	Miller Electric Co.....	" 16, " ...	
Tony Siegel.....	Garden st., Brownell to Forest st....	Nov. 1, " ...	
Lawrence Distel.....	Society for Savings.....	Dec. 7, " ...	

**CITY OFFICERS AND EMPLOYES CLOTHED WITH
POLICE POWERS DURING THE YEAR.**

Names.	Official Position.	Date of Appointment.
L. E. Bouker	Driver of Patrol Wagon.....	October 2, 1888.
J. W. Morgan.....	" "	" 2, "
Frank Grime.....	" "	" 2, "
Courtney B. Lee.....	" "	" 2, "
D. Miller.....	Janitor Hicks street school.....	August 4, "
Wm. Kuhl	" Scranton avenue "	" 4, "
Wm. Pike.....	" Union street "	" 9, "
Robert Mullen.....	" Kinsman street "	September 22, "
Geo. W. Brock.....	" Warren street "	" 22, "
Daniel Sheridan.....	" Standard "	October 6, "
Jasper Bandtel	" Case avenue "	" 13, "
Henry Zell.....	" Meyers avenue "	" 13, "
Peter Keary.....	Tender of Clinton Park	February 8, "
John Haycox.....	Watchman in Wade "	June 5, "
Chas. Anderson.....	" " "	" 5, "
Martin Curry.....	" " "	" 5, "
John Green.....	Watchman in Lake View Park	July 17, "
J. C. Palmer.....	Sup't of Harvard Grove Cemetery.....	March 6, "
Asa Lamb.....	Watchman in Woodland Cemetery.....	November 20, "
Louis Poss.....	Inspector of Markets.....	May 10, "
Leonard Hildebrand.....	Janitor of "	December 22, "
Mathias Reitz.....	" "	" 22, "
Thos. Gallagher.....	Viaduct Guard.....	June 13, "
Jos. Marklew.....	Tender Jefferson street Bridge	" 29, "
F. G. Santer.....	1st Captain Central Viaduct.....	December 13, "
E. A. Briggs.....	2d " "	" 13, "
Philip McManus	Guard "	" 13, "
Anthony O'Malley.....	Night Watchman "	" 13, "

APPOINTMENTS.

Applications for appointment in the service of the Cleveland Police Force must be made upon blanks furnished by the Secretary in the applicant's own hand writing, setting forth under oath that he is above the age of 25 years and under the age of 38 years; that he is at least 5 feet 7 inches in height, and has resided continuously in the city of Cleveland for 4 years last past, and is a citizen of the United States. When an examination is ordered by the Board of Police, the Mayor appoints two Examining Committees, to whom all the applications are referred.

The first Committee consists of two citizens, one Democrat and one Republican and the Police Surgeon, who examine applicants solely as to their physical qualifications, viz.: general health, strength and agility, eye sight and hearing.

The second Committee consists of two citizens, one Democrat and one Republican and the Superintendent of Police, who examine the applicants with reference to all matters outside of physical qualifications, viz.: general character, habits and reputation, experience, reading from print and manuscript, writing from manuscript and dictation, spelling, arithmetic, police rules and regulations, questions relating to Cleveland City Government, location of streets, etc.

No person is entered upon the eligible list whose standing on any of the qualifications or obligatory subjects is less than fifty, or whose average on all is below seventy.

No applicant who fails to pass up to the required standing of physical qualification, before the first Board, shall be examined by the second Board.

No appointments are made upon the force except from those names who are enrolled upon the eligible list of said Committee on Examiners.

Examinations are held as often as the wants of the Department may require, notice of such examination is published in the official newspaper, and the applicants notified by the Secretary to appear for examination.

Since the adoption of the above rules, March 30, 1886, two examinations have been held, in April, 1886, and December, 1887.

APPLICANTS WHO PASSED SUCCESSFUL EXAMINATION IN APRIL, 1886.

Names.	Appointed Patrolman.	Remarks.
Albren, J. A.....	April 27, 1886.....	
Anderson, J., Jr.	January 13, 1887	
Brandt, August.....	April 22, 1886.	
Bergman, Chas.....	.....	
Barrow, Richard, Jr.....	February 18, 1887	
Brugman, Henry.....	.....	
Breheney, Patrick.....	March 15, 1887	
Bash, Frank V.....	June 21, 1887.....	
Bidlingmyer, T. H.....	March 6, 1888.....	
Beal, John.....	.....	
Carroll, Henry.....	June 17, 1886.....	
Connell, John J.....	December 20, 1887.....	
Commerford, Thos	December 31, 1886.....	
Conway, Mathew.....	May 8, 1888	
Corrigan, Edward.....	August 16, 1887.....	
Doering, Frederick.....	March 6, 1888	
Dier, Wm.....	.....	
Durchschlag, E.....	December 7, 1886.....	
Fife, Kinsey.....	June 14, 1887.....	
Fischer, Fred.....	December 20, 1887.....	
Griffin, W. R	January 11, 1887	Resigned Oct. 22, 1888.
Heveran, J. P.....	.....	
Hageman, T. J .....	.....	
Harrison, Wm.....	March 3, 1887.....	
Hanley, Jas.....	April 23, 1886	
Kadel, Geo. A.....	June 6, 1886.....	
Knoch, A. J.....	February 25, 1887	Refused appointment.
Koehler, J. H	May 4, 1886	
Kernan, J. F.....	April 8, 1887.....	
Kelley, F. A.....	March 15, 1887	
Ludders, Wm.....	January 11, 1887	Dismissed June 21, 1887.
Mershon, H. M.....	January 11, 1887	
Meacham, C. L.....	January 11, 1887	

**APPLICANTS WHO PASSED SUCCESSFUL EXAMINATION
IN APRIL, 1886.—Continued.**

Names.	Appointed Patrolman.	Remarks.
McElhaney, M. M.....	May 4, 1886.....	
McNally, Jas.....	March 15, 1887.....	
McAleer, Wm.....	March 22, 1887.....	
Murphy, Thos.....		
Masterson, Michael.....	January 11, 1887.....	
McDonnell, R. C.....	March 15, 1887.....	
McNeeley, M.....		
Neary, J. P.....	April 17, 1888.....	
O'Reilly, P. W.....	March 15, 1887.....	
O'Malley, M. E.....	May 8, 1888.....	
O'Laughlin, Wm.....		
Pierce, Silas.....	April 22, 1886.....	
Phillips, Daniel.....		
Reegan, Peter.....		
Sanders, Chas.....	February 18, 1887.....	
Sheehan, N.....	April 8, 1887.....	
Shibley, C. H. M.....	August 18, 1886.....	Dismissed Dec. 6, 1877.
Watt, Wm.....	May 20, 1886.....	
Walker, Alfred.....	July 1, 1886.....	
Weisbarth, C. L.....	March 20, 1888.....	
Wilford, F. R.....		

**APPLICANTS WHO PASSED SUCCESSFUL EXAMINATION
DECEMBER, 1887.**

Names.	Appointed Patrolman	Remarks.
Barber, Frank A.....		
Bennett, Wm.....		
Bleasdale, Ernst.....	September 18, 1888.	
Brown, F. E.	February 21, 1888.	
Burghardt, Jacob.....		
Carlen, Thos. J.....		
Cary, M. K.....	October 22, 1888.	
Cole, Jay.....		
Collins, James.....		
Commerford, Thos. J.....		
Crail, Chas. M.....		
Cummings, John.....		
Cumminsky, Leonard.....		
De Hondt, C. A.....		
Dempsey, M. J.....		
Distel, Lawrence.....		
Durfey, Chas. H.....		
Durgetto, J. F.....		
Farragher, Patrick.....		
Fergus, Michael.....	September 11, 1888.	
Gallagher, John E.....	July 17, 1888.	
Gallagher, Terry.....	June 5, 1888.	
Gerow, Henry A.....		
Gilbride, Michael.....		
Hayman, W. R.....	May 1, 1888.	
Hefferman, Daniel.....		
Hilliard, James.....		
Hines, Patrick.....		
Holcomb, Burton.....		
Howlett, M. J.....		
Jacobson, Henry.....	May 8, 1888.	
Jirele, Otto.....		

APPLICANTS WHO PASSED SUCCESSFUL EXAMINATION
DECEMBER, 1887.—*Continued.*

Names.	Appointed Patrolman	Remarks.
Kelley, Edward.....		
Kolaszewski, Leo	May 8, 1888.	
Kruchel, Albert.....		
Lyle, Chas. N.....	May 8, 1888.	
McGinty, Thos.....		
Moore, F. J.		
Moulton, Mlles.....		
Mullee, Michael.....	October 8, 1888.	
Poser, Andrew J.....		
Ralph, Joseph	May 8, 1888.	
Rudkin, B.		
Seely, Daniel D.....		
Siegrist, Philip.....	May 8, 1888.	
Stein, Jacob H.....		
Tompkins, Frank F.....		
Wade, J. E.		

REPORT OF POLICE SURGEON.

CLEVELAND, January 1, 1889.

To the Honorable Board of Police Commissioners :

GENTLEMEN:—I hereby submit my report for the year ending December 31, 1888.

During the year 144 officers were reported sick, and 17 disabled, total, 161; number of professional visits made, 819.

Amount time of sickness, 2,001 days; and of disability, 180, total, 2,181 days.

Two officers died during the year; Patrolman Jacob Hammel, April 2, 1888, cause of death, Rheumatism; and Charles Duff, July 8, 1888, cause of death, Consumption.

CAUSES OF SICKNESS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Asthma.....	41	54	25	4			2	1	20	12	2		161
Consumption.....				8	10	24	7						49
Carbuncle.....							6	7		5			18
Cramps.....			11		2		29	99		3	3	3	80
Catarrh of bladder.....	27												27
Cold.....	36	41	60	44	28	27		12	41	11	12	39	351
Diarrhoea.....						4	5			9	8		26
Fever.....		82	95	16					16			5	215
Gallstone.....	16	29	31	1			15	31	11				134
Headache.....					1						22	4	27
Injured.....	17	45	56	30	22		17	29		22	11	13	262
Inflamed ear.....	25	4											30
Kidney complaint.....	4												4
Liver complaint.....											4	10	14
Lumbago.....				2			7	2				5	16
Malaria.....			19	23		11			24	20		32	129
Neuralgia.....			3				25	36		7	16		87
Nervous prostration.....				1									1
Operations.....		5	2		2								9
Pneumonia.....	77							5		13			95
Pluerisy.....							31					5	36
Piles.....								7					7
Rheumatism.....	17	12	27	2	93	66	8		6	15		23	269
Sore throat.....	3						30	31				9	73
Sore eyes.....			1	10		15			11				37
Quinsy.....	10									14			24
Total.....	274	272	330	141	158	147	182	190	129	131	78	149	2181

Respectfully,

F. B. NORTON,

Police Surgeon.

REPORT OF THE EMIGRANT OFFICER.

CLEVELAND, O., January 1, 1889.

J. W. Schmitt, Superintendent of Police:

SIR:—During the year ending December 31, 1888, twenty thousand; three hundred and thirty-eight emigrants arrived on the different railroads leading into this city, of which five thousand and sixty-one settled in this city of the different nationalities as follows:

SETTLED IN THE CITY.

Nationality.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Bohemians.....	66	24	59	192	132	245	140	64	86	39	69	.....	1116
Danes.....		2	.....	.....	.....	20	6	.....	.....	.....	2	.....	30
English.....	8	5	23	74	87	116	73	27	54	23	25	.....	515
Finland.....										1	.....	.....	1
French.....									2	.....	.....	.....	2
Germans.....	32	35	115	150	254	178	143	111	70	62	106	.....	1256
Hungarians.....	4	11	20	8	137	73	52	69	43	10	28	.....	455
Isle of Man.....			12	2	.....	.....	.....	.....	.....	.....	.....	.....	14
Irish.....	5	7	25	55	113	117	46	42	14	11	13	.....	448
Italians.....		2	46	19	55	21	1	25	5	6	11	.....	191
Norwegians.....			6	15	.....	1	.....	.....	2	.....	.....	.....	24
Poles.....	8	15	59	95	158	101	66	79	28	8	77	.....	694
Russians.....												.....	.....
Slavonians.....	4	5	31	15	14	18	45	4	6	17	.....	.....	159
Swedes.....		1	3	18	21	23	9	14	14	1	.....	.....	104
Scotch.....			9	8	.....	6	.....	.....	.....	6	6	.....	35
Welsh.....				6	.....	.....	.....	.....	11	.....	.....	.....	17
Total.....	127	107	408	657	971	919	581	435	335	184	337	.....	5061

ARRIVED IN THE CITY.

January.....	412
February.....	559
March.....	1,416
April.....	3,383
May.....	3,899
June.....	2,703
July.....	1,665
August.....	1,011
September.....	1,512
October.....	1,688
November.....	1,266
December.....	824
Total.....	20,338

Respectfully submitted,

JOHN F. SPROSTY,

Emigrant Officer.

THE CLEVELAND POLICE PENSION FUND.

The following persons constitute the Trustees of this Fund :

B. D. BABCOCK, Mayor.

COMMISSIONERS.

J. H. BRADNER,	I. L. MORRIS,
JAMES McNEIL,	FRANK D. BOSWORTH,
A. J. BARNES, Patrolman,	
F. B. EUSTACE, “	
JOHN VANEK, Secretary.	

In the last report there was only one officer on the police pension roll.

During the year twelve officers, viz.: three lieutenants and nine patrolmen were retired from active service and placed upon the pension roll.

The following Officers are on the Pension Roll :

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Patrolman	Thomas Hoban.....	Sept. 22, 1871.....	May 15, 1881.
“	Jacob Meyer	Nov. 13, 1871.....	March 6, 1888.
“	Charles Ecard.....	May 8, 1868	“ “
“	Richard Dunn.....	May 1, 1866	May 1, 1888.
Lieutenant	Wm. Tompkins.....	May 1, 1866	May 8, 1888.
“	W. R. Simmonds	May 15, 1867	“ “
“	Philip Anthony.....	Dec. 24, 1870	“ “
Patrolman	Killian Dienst.....	May 1, 1866	“ “
“	John Faron.....	May 1, 1866	“ “
“	J. P. Bramley.....	Nov. 2, 1871.....	“ “
“	Wm. Sorge	Nov. 13, 1871.....	“ “
“	Geo. W. Willis.....	May 1, 1866	“ “
“	John J. Mollan.....	August 22, 1873.....	Sept. 11, 1888.

These officers receive in monthly payments the sum of five hundred dollars per year.

OBITUARY.

Two deaths occurred during the year :

JACOB HAMMEL, Patrolman No. 27, died April 2, 1888.
Appointed Patrolman May 1, 1866; and

CHARLES DUFF, Patrolman No. 160, died July 8, 1888.
Appointed Patrolman August 7, 1883.

One hundred and fifty dollars was paid from this Fund to
the heirs of each of the deceased officers.

POLICE PENSION FUND.

RECEIPTS AND DISBURSEMENTS DURING THE YEAR.

1888.	RESOURCES.	
January 1.....	Bonds and cash on hand.....	\$ 34,987 46
" 16.....	15% of details for quarter ending December 31, 1887.....	148 95
" 16.....	Reward from Reform Farm, Indiana.....	20 00
" 16.....	Fee of A. Sheffield as special police.....	5 00
" 16.....	Marshal fees in city cases police court for Dec., 1887.	132 00
" 16.....	Officers' " " " " " "	161 00
" 19.....	15% of Lieut. P. Anthony's salary as sergeant at arms.	52 50
" 21.....	Marshal fees in state cases in police court for Nov., '87.	48 71
" 21.....	Officers' " " " " " "	45 54
" 21.....	Marshal " " " " " Dec., '87.	54 66
" 21.....	Officers' " " " " " "	53 46
February 7.....	Fee of Jones and Guest as special police.....	10 00
" 13.....	Marshal fees in city cases police court for Jan., 1888...	56 90
" 13.....	Officers' " " " " " "	101 50
" 27.....	Fee of Cain and Wright as special police.....	10 00
March 1.....	Interest on \$21,000 city bonds, 6 months, 4%.....	420 00
" 12.....	Marshal fees in city cases police court for February...	49 67
" 12.....	Officers' " " " " " "	109 00
" 12.....	Marshal fees in com. pleas court & gr. jury, Jan. term.	30 15
" 12.....	Officers' " " " " " "	229 00
" 16.....	Fees of six men in service of Merchant Police Co.....	30 00
" 24.....	Marshal fees in state cases police court for Jan., 1888.	42 13
" 24.....	Officers' " " " " " "	36 63
" 21.....	Marshal " " " " " Feb., 1888.	29 70
" 24.....	Officers' " " " " " "	23 76
April 3.....	Interest on \$5,200 city notes, 6 months, 5%.....	130 00
" 3.....	" \$5,000 Petrie bridge bonds, 6 months, 4%...	100 00
" 17.....	15% of details for quarter ending March 31, 1888.....	139 73
" 17.....	Fees of F. Moersch and Jas. Duggan as special police.	10 00
" 17.....	Marshal fees in police court city cases for March.....	58 33
" 17.....	Officers' " " " " " "	132 00
	<i>Forward</i>	\$ 37,457 78

POLICE PENSION FUND.—*Continued.*

1888.	RESOURCES.— <i>Continued.</i>	
	<i>Forwarded</i>	\$ 39,360 07
August 14.....	Marshal fees in Grand Jury cases, April term.....	27 40
" 14.....	Officers' " " " " " "	108 00
" 14.....	Fee of Chas. A. Pennell as special police.....	5 00
" 24.....	Marshal fees collected at Workhouse, 6 mo. city cases	28 25
" 24.....	Officers' " " " " " "	40 50
September 11.	Marshal " " " " state cases	44 75
" 11.	Officers' " " " " " "	88 00
" 11.	Fees of Jos. Koslovsky & Chas. Kniola as spec. police	10 00
" 11.	Interest on \$21,000 city bonds, 6 mo., 4%.....	420 00
" 13.	Marshal fees in Police Court, city cases for August...	90 32
" 13.	Officers' " " " " " "	177 50
October 5.....	Interest on \$2,600 city notes, 6 mo., 5%.....	65 00
" 5.....	" " \$5,000 " 7 mo. 2 days, 5%.....	147 22
" 5.....	" " \$5,000 " 6 mo., 4% (Petrie bridge)..	100 00
" 8.....	Marshal fees in Police Court in state cases for July...	45 63
" 8.....	Officers' " " " " " "	28 71
" 8.....	Marshal " " " " " Aug....	84 01
" 8.....	Officers' " " " " " "	36 63
" 8.....	Fees of Johnson, Hughes, McReynolds and Killam as special police.....	20 00
" 11.....	15% details for quarter ending September 30, 1888.....	101 85
November 12.	½ proceeds from sale of theatre tickets.....	207 75
" 12.	Donated by citizens.....	4 75
" 12.	Fee of G. C. Dresser & Jas. Brannan as special police	10 00
" 20.	Marshal fees in Police Court in city cases for Sept....	54 59
" 20.	Officers' " " " " " "	141 00
" 20.	Marshal " " " " " Oct.....	77 24
" 20.	Officers' " " " " " "	192 50
December 8...	Officers' fees in Common Pleas Court, Sept. term.....	96 00
" 8...	" " Police Court, Sept. term.....	25 00
" 8...	Marshal " Common Pleas Court, Sept. term.....	33 27
	<i>Forward</i>	\$ 41,805 94

POLICE PENSION FUND.—*Continued.*

1888.	RESOURCES.— <i>Continued.</i>		
	<i>Forwarded</i>	\$ 41,806 94	
December 8...	Marshal fees in Police Court, state cases for Sept.....	40 06	
" 8...	" " " " " " October.	44 82	
" 8...	Officers' " " " " " " Sept.....	27 72	
" 8...	" " " " " " October.	32 67	
" 8...	Fee of Tony Siegel as special police.....	5 00	
" 15...	Fine of John Miller, Patrolman No. 150.....	13 89	
" 15...	Fee of L. Distel as special police.....	5 00	
" 24...	Marshal fees in Police Court, city cases for Nov.....	75 01	
" 24...	Officers' " " " " " "	168 50	
" 29...	Marshal fees in Com. Pleas Co't & Gr. Jury, Sept. t'm	22 13	
" 29...	Officers' " " " " " "	270 00	
	Total Resources.....		\$ 42,510 73
	DISBURSEMENTS.		
January 4.....	Pension to Thos. Hoban for December, 1887.....	41 66	
February 7.....	" " " " " " January, 1888.....	41 66	
March 7.....	" " " " " " February, 1888	41 66	
" 12.....	To Savings & Trust Co. for safe keep'g of b'ds & notes	28 28	
April 3.....	Pension pay roll for March.....	108 86	
" 25.....	To Savings & Trust Co. for safe keep'g of b'ds & notes	2 50	
May 1.....	Pension pay roll for April.....	124 98	
June 6.....	" " " " " " May	336 95	
" 6.....	To heirs of Patrolman J. Hammel, deceased.. ..	150 00	
July 3.....	Pension pay roll June.....	499 92	
" 3.....	Cleveland Printing & Publishing Co. books.....	9 00	
August 7.....	Pension pay roll for July.....	499 92	
" 7.....	To wife of Patrolman Chas. Duff, deceased	150 00	
September 4..	Pension pay roll for August	499 92	
" 13..	To R. M. Cordes, for making out bills.....	14 15	
October 2.....	Pension pay roll for September.....	526 33	
November 12..	" " " " " " October.....	541 58	
December 4...	" " " " " " November	541 58	
	Total Disbursements.....		4,158 00
	Balance on hand January 1, 1889		\$ 38,352 73

POLICE PENSION FUND.—*Continued.*

RECAPITULATION.

RESOURCES.		
Balance on hand January 1, 1888.....		\$34,987 46
Marshal fees in Police Court, city cases.....	\$ 972 65	
Officers' " " " "	1,831 00	
Marshal " " state "	540 62	
Officers' " " " "	433 64	
Marshal " Grand Jury and Common Pleas Court.....	247 12	
Officers' " " " " " "	889 00	
" " collected at Workhouse.....	141 50	
15% of special details.....	518 54	
Rewards.....	20 00	
Fees of Special Policemen.....	165 00	
Interest on bonds and notes.....	1,382 22	
From Sergeant-at-Arms of the Council.....	75 00	
From sale of stolen and unclaimed property.....	80 59	
From sale of Theatre tickets.....	212 50	
Fine imposed upon a Patrolman.....	13 89	
		7,523 27
Total		\$42,510 73
DISBURSEMENTS.		
Pensions paid to officers.....	\$3,804 07	
" to heirs of deceased officers.....	300 00	
For safe keeping of bonds and notes.....	30 78	
" stationery.....	9 00	
" making out Workhouse fees.....	14 15	
		4,158 00
Balance on hand January 1, 1889.....		\$38,352 73
ASSETS.		
Cash in the City Treasury.....		15,852 73
Deposited for safe keeping at the Savings & Trust Co., Cleveland, 10 City of Cleveland bonds (Kingsbury bridge) 4%, payable March 1, 1900, @ \$1,000.....		\$10,000 00

POLICE PENSION FUND.—*Continued.*RECAPITULATION.—*Continued.*

ASSETS.— <i>Continued.</i>		
5 City of Cleveland bonds (Petrie bridge) 4%, payable April 1, 1892, @ \$1,000.....	\$5,000 00	
1 City of Cleveland note (E. Madison ave. sewer) 5%, payable October 1, 1892.....	2,500 00	
2 City of Cleveland notes (Case ave. grading, etc.) 5%, each \$2,500, pay- able \$2,500 April 1, 1892, and \$2,500 on October 1, 1892.....	5,000 00	
		\$22,500 00
Total.....		\$38,352 73

**INVENTORY OF PUBLIC PROPERTY APPERTAINING TO
THE POLICE DEPARTMENT OF THE CITY
OF CLEVELAND.**

Precinct Stations.	Value of Real Estate.	Value of Miscellaneous Property.	Total.
1st Precinct.....	\$ 60,000 00	\$ 1,705 93	\$ 61,705 93
2nd "	8,000 00	704 50	8,704 50
3d & 5th "	7,000 00	693 73	7,693 73
4th " (leased)		888 44	888 44
6th "	8,000 00	514 54	8,514 54
7th "	5,000 00	443 20	5,443 20
8th "	10,000 00	773 38	10,773 38
9th "	5,000 00	481 37	5,481 37
10th "	8,000 00	618 12	8,618 12
Patrol Station No. 1 (leased).....		1,553 51	1,553 51
" No. 2 (leased).....		1,511 45	1,511 45
Patrol System and Operating Room.....		7,649 06	7,649 06
Superintendent's Office.....		350 00	350 00
Secretary's Office.....		650 00	650 00
Supplies on hand		621 23	621 23
Total.....	\$ 111,000 00	\$ 19,163 46	\$ 130,163 46

The following statistical tables will more particularly show the detailed workings of the Force for the year ending Dec. 31, 1888:

ARRESTS MADE DURING THE YEAR.

Month.	Males.	Females.	Total.
January	502	58	560
February	465	58	523
March	530	61	591
April	548	62	610
May	744	238	982
June	735	78	813
July	671	114	785
August	732	117	849
September	595	93	688
October	730	79	809
November	662	73	735
December	693	99	792
Total	7607	1130	8737

COLOR.

White	8494
Colored	243
Total	8737

SOCIAL CONDITION.

	Males.	Females.	Total.
Married	2942	528	3470
Single	4665	602	5267
Total	7607	1130	8737

QUALIFICATIONS.

Able to read and write	8069
Unable to read and write	668
Total	8737

OFFENSES.

VIOLATING STATE LAWS.

Attachment.....	4
Assaulting an officer.....	5
Aiding prisoners to escape from workhouse.....	1
Adultery	9
Arson	11
Assault and battery.....	391
Assault with intent to kill	10
Assault with intent to rape	1
Burglary	13
Burglary and larceny.....	82
Carrying concealed weapons.....	28
Contempt of Court.....	8
Cruelty to animals.....	12
Cutting with intent to kill	4
Cutting with intent to wound.....	20
Defrauding inn keeper.....	4
Destroying property.....	64
Embezzlement	12
Exhibiting minor children.....	1
Forgery.....	11
Fornication.....	4
Fugitive from justice	15
Grand larceny.....	51
Gambling.....	9
Horse stealing.....	9
House breaking.....	1
Impersonating an officer.....	1
Insane	6
Incorrigible conduct.....	19
Incest	1
Intoxication	207
Keeping house of ill fame.....	25
Libel	3
Keeping resort for thieves.....	1
Letting house for purpose of prostitution.....	1
Maiming.....	4
Murder.....	6

Manslaughter	5
Mortgage property fraudulently converting.....	1
Obstructing officer.....	18
Obtaining money by false pretenses	15
Obtaining goods by false pretenses.....	9
Obscene pictures and models	3
Petit larceny.....	444
Passing counterfeit money.....	5
Pocket picking.....	13
Performing common labor on Sunday.....	1
Perjury	2
Rape	2
Receiving stolen property.....	16
Receiving and secreting stolen property.....	1
Robbery	23
Resisting officer.....	9
Robbing the mails.....	1
Selling cigarettes to minors	1
Selling liquor to minors	1
Shooting with intent to wound.....	4
Shooting with intent to kill.....	4
Violating railroad law.....	118
" election "	2
" U. S. postal law.....	1
" milk "	7
" lottery "	1
" liquor law on Sunday.....	151
Wrongfully using animals.....	31
Workhouse—escaping from.....	2
Total.....	1,946

VIOLATING CITY ORDINANCES.

Abusing family.....	2
Careless driving.....	12
Common beggar.....	45
Common prostitute.....	21
Disorderly conduct	392
Disturbance	428
Fast driving.....	11

REPORT OF POLICE DEPARTMENT.

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Indecent exposure of person.....	14
Intoxication	4,753
Keeping house of ill fame.....	77
Keeping gambling rooms.....	10
Neglecting minor children.....	19
Residing in house of ill fame	152
Suspicious persons.....	75
Vagrancy	140
Violating bill posters ordinance.....	9
" bathing " 	5
" bridge " 	1
" dog " 	4
" engineers " 	89
" fire alarm " 	4
" fire arms " 	14
" health " 	22
" hack " 	4
" junk " 	7
" music " 	16
" peddlers " 	20
" harbor " 	4
" pound " 	1
" property " 	103
" sidewalk " 	102
" street " 	79
" street railroad " 	12
" sewer " 	1
" water works " 	2
" weights and measures ordinance.....	4
" waiter girls ordinance.....	3
" market " 	3
" sign " 	1
" base ball " 	4
" cemetery " 	1
" smoke " 	1
" milk " 	1
" park " 	2
Visiting house of ill fame.....	171
Total.....	6,791

TOTAL NUMBER OF ARRESTS DURING THE YEAR.

Violating State laws.....	1,946
Violating City ordinances.....	6,791
Total.....	8,737

OCCUPATIONS.

Actors	11
Agents.....	91
Artists	23
Architects	7
Bakers.....	19
Barbers.....	44
Bar tenders.....	52
Beggars	11
Blacksmiths	105
Boatmen.....	20
Boiler makers.....	92
Bolt makers.....	40
Book-keepers	39
Boot blacks.....	42
Brakemen	54
Brewers	7
Bricklayers.....	34
Brickmakers	3
Butchers	78
Broom makers.....	19
Cabinet makers.....	39
Car drivers.....	11
Carpenters.....	248
Carriage makers.....	13
Cigar makers.....	58
Clerks	152
Cloak makers.....	5
Coachmen	15
Coal dealers.....	4
Collectors.....	6
Conductors	9
Confectioners.....	2
Contractors.....	10

REPORT OF POLICE DEPARTMENT.

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Cooks.....	65
Coopers.....	27
Core makers.....	16
Doctors.....	16
Dress makers.....	11
Druggists.....	8
Electricians.....	8
Engineers.....	85
Expressmen.....	37
Farmers.....	112
Finishers.....	45
Firemen.....	96
Gas fitters.....	9
Gamblers.....	18
Gardeners.....	18
Grocers.....	23
Hackmen.....	25
Harness makers.....	5
Heaters.....	15
Helpers.....	10
Hostlers.....	66
Housekeepers.....	528
Hotel keepers.....	6
House movers.....	4
Hucksters.....	17
Hatters.....	4
Iron workers.....	65
Janitors.....	11
Jewelers.....	15
Junk dealers.....	16
Laborers.....	2,064
Lawyers.....	19
Livery keepers.....	16
Machinists.....	193
Mail carriers.....	2
Manufacturers.....	10
Masons.....	14
Mechanics.....	7
Merchants.....	42
Ministers.....	1

Milkmen	10
Miners.....	7
Moulders	189
Musicians	21
Millers	14
Newsboys	13
Operators	23
Painters	164
Paper hangers	27
Peddlers.....	114
Plasterers	31
Plumbers	57
Polishers	44
Porters	28
Printers	52
Prostitutes	17
Puddlers.....	32
Railroad men	96
Rolling mill men.....	64
Roofers.....	30
Sailors.....	434
Sail makers.....	9
Saloon keepers.....	240
School boys.....	153
School girls	15
Servants	107
Ship carpenters	33
Shoe makers	90
Stenographers	5
Spring makers.....	12
Stone cutters.....	60
Stone masons.....	25
Tailors	56
Teamsters	238
Thieves	12
Tinsmiths	56
Tugmen	5
Tinkers	14
Turners.....	5
Teachers.....	2

Trimmer.....	1
Truckman	1
Upholsterers.....	2
Vagrants	507
Weavers.....	3
Watchmen.....	9
Waiters.....	40
Washerwomen.....	14
Wire workers.....	35
Whitewashers	9
Well diggers.....	3
Total.....	8,787

NATIVITY.

Arabia.....	2
Australia	4
Austria.....	37
Bohemis.....	305
Canada	315
China.....	5
Denmark	13
England	487
Finland.....	7
France.....	39
Germany	919
Greenland	4
Holland	20
Hungary.....	123
Heligoland	1
Ireland	1,279
Isle of Man.....	15
Italy.....	38
Norway	27
Nova Scotia.....	4
Newfoundland.....	2
Poland	87
Prussia.....	6

REPORT OF POLICE DEPARTMENT.

Russia.....	24
Roumania	1
Scotland	121
Slavacs	19
Sweden	37
Switzerland.....	41
United States.....	4,711
Wales	44
Total.....	8,737

AGES.

Months.	Under Ten.	Ten to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and over.	Total.
January	1	57	200	150	100	36	16	560
February	4	94	187	112	84	31	11	523
March	3	82	220	141	84	42	19	591
April.....	1	72	209	161	107	36	24	610
May	3	150	437	203	127	43	19	982
June.....	4	129	299	167	137	61	16	813
July.....	8	112	250	204	122	64	25	785
August.....	2	126	283	218	141	50	24	849
September.....	4	114	216	166	121	42	26	688
October.....	5	111	281	204	129	56	23	809
November	5	108	282	182	100	38	20	735
December.....	2	115	259	218	112	56	30	792
Total.....	42	1270	3128	2126	1364	555	252	8737

FINES AND COSTS COLLECTED.

Months.	By Clerk of Police Court.	By Superin- tendent of Workhouse.	Total.
January	\$ 1,678 64	\$ 282 96	\$ 1,961 60
February	1,580 31	153 63	1,733 97
March	1,890 28	298 36	2,178 64
April	1,481 01	200 23	1,681 24
May	7,639 09	544 63	8,183 72
June	2,483 89	438 69	2,922 58
July	2,194 74	359 73	2,554 47
August	2,827 96	241 58	3 069 54
September	1,840 19	292 32	2,132 51
October	2,363 96	551 44	2,915 40
November	2,105 43	466 74	2,572 17
December	1,612 75	194 36	1,807 11
Total	\$ 29,688 25	\$ 4,024 70	\$ 33,712 95

DISPOSITION OF CASES.

Months.	Sent to House of Refuge and Correction.		Bound over to Court of Common Pleas.	Fine and Workhouse.		Fine and Cost.	Dismissed.	Cost.	Nolled.	Bond forfeited.	Delivered to Officer from abroad.	Committed to House of Good Shepherd.	Committed to Infirmary.	Committed to Reform Farm.	Delivered to Sheriff.	Cases continued.	Delivered to United States authorities.	Total.
January	1	19	59	300	63	85	26	2	1	1	3							560
February	5	11	45	326	58	41	30	2				2	3					523
March	3	8	47	403	55	44	26	1	1	1			1	1				521
April	4	19	44	383	59	39	57	1	3			1		1				610
May	4	11	54	750	67	47	42	3	4									982
June.....	1	22	22	574	71	68	48	3	1	3								813
July	3	11	51	510	70	82	44	5	4			4		1				785
August	3	16	38	542	90	86	48	1	4							21		849
September	3	10	54	472	53	43	41	1	4	2					1	4		688
October	2	19	44	537	52	78	64	3	2	1	3	2	2					809
November	2	15	44	418	68	121	55	5					3	4				735
December.....	6	20	68	429	95	122	35	1	4		2			1	6	3		792
Total.....	37	181	570	5644	800	856	516	28	28	8	15	9	11	31	3			8737

1,452 prisoners of the 5,844 sentenced to "fine and costs," unable to pay the same, were sent to Workhouse.

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF REFUGE AND CORRECTION.

Months.	Workhouse.			House of Refuge and Correction.	
	Males.	Females.	Total.		Total.
January	133	17	156	1	157
February	105	24	129	5	134
March.....	118	24	142	3	145
April	130	23	153	4	157
May	122	38	160	4	164
June.....	194	33	227	1	228
July.....	133	33	166	3	169
August.....	123	43	166	3	169
September.....	124	37	161	3	164
October	162	26	188	2	190
November.....	133	19	152	2	154
December.....	186	36	222	6	228
Total.....	1669	353	2022	37	2059

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF CORRECTION FOR THE
PAST SIX YEARS.

1882.

Sent to Workhouse	1,514
Sent to House of Refuge and Correction.....	60
Total.....	1,574

1883.

Sent to Workhouse	1,507
Sent to House of Refuge and Correction.....	114
Total.....	1,621

1884.

Sent to Workhouse	1,812
Sent to House of Refuge and Correction.....	114
Total.....	1,926

1885.

Sent to Workhouse	2,098
Sent to House of Refuge and Correction.....	85
Total.....	2,183

1886.

Sent to Workhouse	1,829
Sent to House of Refuge and Correction.....	68
Total.....	1,997

1887.

Sent to Workhouse	1,981
Sent to House of Refuge and Correction.....	63
Total.....	2,044

1888.

Sent to Workhouse	2,022
Sent to House of Refuge and Correction.....	37
Total.....	2,059

TOTAL OF ARRESTS FOR THE PAST TEN YEARS.

1878.....	7,151
1879.....	6,589
1880.....	7,432
1881.....	7,465
1882.....	6,741
1883.....	7,254
1884.....	7,270
1885.....	6,882
1886.....	6,732
1887.....	8,588
1888.....	8,737

PROPERTY REPORTED STOLEN AND RECOVERED.

Months.	Reported Stolen.	Recovered.	Per Cent. Recovered.
January	\$ 1,417 87	\$ 753 70	.....
February	1,156 48	861 90	.....
March	1,905 10	1,039 50	.....
April	1,688 03	816 19	.....
May	3,142 16	774 50	.....
June.....	2,957 48	991 00	.....
July	1,587 78	765 01	.....
August	4,571 49	907 75	.....
September	3,309 20	739 25	.....
October	2,317 00	383 54	.....
November	5,541 75	1,652 88	.....
December	4,436 00	1,509 79	.....
Total.....	\$ 34,030 34	\$ 11,215 01	32.95

PROPERTY REPORTED STOLEN AND RECOVERED FOR
THE PAST FOURTEEN YEARS.

Years.	Stolen.	Recovered.	Per Cent. Recovered.
1874.....	\$ 35,569 83	\$ 17,856 57	50.75
1875.....	50,109 77	29,273 26	58.41
1876.....	34,762 72	24,055 60	69.20
1877.....	27,677 67	30,055 60	79.76
1878.....	29,731 43	23,596 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,780 90	24,913 40	86.56
1881.....	135,890 75	124,508 09	91.63
1882.....	45,308 55	22,120 85	47.72
1883.....	21,268 80	12,180 46	57.22
1884.....	37,128 67	29,783 16	80.21
1885.....	32,227 53	14,410 02	44.09
1886.....	26,775 41	12,840 14	47.95
1887.....	38,805 64	17,844 19	46.24
1888.....	34,030 34	11,215 01	32.95

POPULATION OF THE CITY.

Census January 1, 1880.....	158,207
Census January 1, 1881.....	166,413
Census January 1, 1882.....	185,851
Census January 1, 1883.....	194,684
Census January 1, 1884.....	200,426
Census January 1, 1885.....	205,446
Census January 1, 1886.....	214,013
Census January 1, 1888.....	230,000
January 1, 1889—Estimated.....	250,000



Report of Police Court.

Report of Police Court.

To the Honorable Common Council :

Report of the proceedings of the Police Court of the City of
Cleveland, Ohio, for the year ending December 31st, 1888 :

NUMBER OF PERSONS ARRAIGNED.

In City cases.....	6,607	
In State cases.....	1,686	
In State Examinations.....	285	
In Cases coming from Justices' Courts.....	142	
Total number.....		8,730

NUMBER OF PERSONS COMMITTED.

In City cases—To the Workhouse.....	1,648	
In State cases—To the Workhouse.....	392	
Children—To the House of Refuge and Correction.....	35	
State Case—To the County Jail.....	9	
Children—To the Boys' Industrial School.....	8	
Children—To the House of Good Shepherd.....	6	
Total number.....		2,098

COMMITMENT IN DAYS.

In City cases—To the Workhouse.....	9,824	
In State cases—To the Workhouse.....	4,723	
In State cases—To the County Jail.....	110	
Total number.....		14,657

FINES AND COSTS ASSESSED.

City cases—Amount of Fines and Forfeited Bail.....	\$19,686 00
City cases—Amount of Costs.....	9,561 00
City cases—Amount of Cash overpaid.....	10 87
City cases—Amount paid for search made on Warrants.....	7 80
City cases—Amount of fines and costs collected during the year, which were assessed in months prior to the months in which col- lections were made.....	944 60
Total.....	\$30,210 27

City cases—Amount paid City Treasurer.....	\$18,060 79
City cases—Amount of fines on commitments to Workhouse.....	7,646 00
City cases—Amount of costs on commitments to Workhouse.....	2,518 12
City cases—Amount of fines and costs uncollected.....	972 71
City cases—Amount of costs in cases dismissed.....	285 05
City cases—Amount of fines and costs pending on Petition in Error.....	285 00
City cases—Amount of fines and costs remitted by the Court.....	271 30
City cases—Amount of costs in cases nolle.....	166 80
City cases—Amount of costs in cases wherein Bond was forfeited.....	4 50
Total.....	\$30,210 27
Amount of Witness and Jurors' Fees certified to City Auditor.....	\$686 75

FINES AND COSTS ASSESSED.

State cases—Amount of fines.....	\$13,466 00
State cases—Amount of Costs.....	9,921 73
State cases—Amount paid in cases from Justices' Courts.....	706 18
State cases—Amount paid in State Examinations.....	81 96
State cases—Amount of cash overpaid.....	5 59
State cases—Amount of fines and costs collected during the year which were assessed in months prior to the months in which col- lections were made.....	1,359 26
Total.....	\$25,539 72

State cases—Amount paid County Treasurer.....	\$11,902 50
State cases—Amount of fines on commitments to Workhouse.....	6,380 00
State cases—Amount of costs on commitments to Workhouse.....	2,488 29
State cases—Amount of fines on commitments to County Jail.....	100 00
State cases—Amount of costs on commitments to County Jail.....	52 41
State cases—Amount of fines and costs uncollected.....	1,962 22
State cases—Amount of costs in cases dismissed.....	917 21
State cases—Amount of fines and costs pending on Petition in Error.....	1,104 72
State cases—Amount of costs in cases nolle.....	387 36
State cases—Amount of fines and costs remitted by the Court.....	296 01
State cases—Amount of costs wherein Bonds were forfeited.....	49 00
Total.....	\$25,539 72

REPORT OF POLICE COURT.

279

STATE EXAMINATIONS.

Amount of costs in cases bound over to Common Pleas Court.....	\$ 2,403 91
Amount of costs in cases dismissed.....	283 37
Amount of costs in cases nolle.....	86 43
Amount of costs in cases wherein Bond was forfeited.....	24 00
Total.....	<u>\$2,797 71</u>

CASES FROM JUSTICES' COURTS.

Amount of fines and costs wherein defendants were sentenced.....	\$ 794 71
Amount of costs in cases nolle.....	1,321 68
Amount of costs in cases dismissed.....	614 85
Total.....	<u>\$2,731 24</u>
Amount of Witness and Jurors' Fees certified to County Auditor.....	\$5,212 65

DISTRIBUTION OF FINES AND COSTS COLLECTED.

City cases—To Police Court Fund.....	\$13,559 13
City cases—To Board of Police for service of Writs.....	2,693 16
City cases—Police Pension Fund (Officer fees).....	1,808 50
Total.....	<u>\$18,060 79</u>
State cases—To Cuyahoga County.....	\$ 9,815 00
State cases—To Board of Police for service of Writs	1,577 50
State cases—To Police Pension Fund (Officer fees).....	410 00
Total.....	<u>\$11,802 50</u>
Total City and State cases.....	<u>\$29,863 29</u>

MONTHLY CASH COLLECTIONS DURING THE YEAR 1888.

January.....	\$ 1,678 64
February....	1,580 31
March.....	1,880 28
April.....	1,481 01
May.....	7,639 09
June	2,483 89
July.....	2,219 74
August.....	2,929 00
September.....	1,840 19
October.....	2,387 96
November.....	2,130 43
December.....	1,612 75
Total.....	<u>\$29,863 29</u>

NUMBER OF CITY CASES DISPOSED OF DURING THE YEAR 1888.

Intoxication.....	4,647
Disturbance.....	414
Disorderly conduct.....	384
Visiting house of ill-fame.....	178
Vagrancy	148
Residing in house of ill-fame.....	147
Violating sidewalk ordinance.....	101
Violating property ordinance.....	95
Violating street ordinance.....	88
Suspicious person.....	63
Destroying property.....	52
Common beggar.....	43
Violating stationery engineer's ordinance	38
Violating health ordinance.....	27
Common prostitute.....	27
Violating peddlers ordinance.....	23
Violating fire-arms.....	17
Violating music ordinance.....	15
Careless driving.....	13
Fast driving.....	9
Keeping house of ill-fame.....	9
Violating bill poster ordinance.....	9
Violating street railroad ordinance.....	6
Violating bathing ordinance.....	5
Violating dog ordinance.....	4
Practicing trick with intent to swindle.....	4
Gambling	3
Keeping gambling room.....	3
Violating railroad ordinance.....	3
Violating harbor ordinance.....	3
Violating waiter girl ordinance.....	3
Violating hack ordinance.....	3
Violating weight and measure ordinance.....	3
Indecent exposure	2
Violating junk ordinance.....	2
Common thief.....	3
Violating exhibition ordinance.....	1
Keeping disorderly house.....	1
Violating viaduct ordinance.....	1

Violating sewer ordinance.....	1
Violating steam railroad ordinance.....	1
Violating park ordinance.....	1
Violating pond ordinance.....	1
Violating market ordinance.....	1
Violating smoke ordinance.....	1
Violating bridge ordinance.....	1
Violating express ordinance.....	1
Abusing family.....	1
Obstructing city sealer.....	1
Total number.....	6,607

NUMBER OF STATE CASES DISPOSED OF DURING THE YEAR 1888.

Petit larceny.....	466
Assault and battery.....	404
Intoxication.....	233
Violating railroad law.....	147
Violating Sunday liquor law.....	100
Keeping house of ill-fame.....	58
Carrying concealed weapon.....	28
Wrongfully using a horse.....	27
Incorrigible conduct.....	26
Neglecting minor children.....	20
Cruelty to animals.....	14
Assault.....	14
Receiving stolen property.....	12
Indecent exposure.....	11
Violating milk law.....	10
Adultery.....	9
Resisting officer.....	9
Obtaining goods by false pretenses.....	9
Obstructing officer.....	9
Obtaining money by false pretenses.....	8
Destroying property.....	7
Fornication.....	6
Gambling.....	6
Contempt of Court.....	5
Violating second-hand dealer's law.....	5
Embezzlement.....	5

Keeping gambling room.....	5
Gaming.....	5
Criminal libel.....	3
Defrauding hotel keeper.....	3
House breaking in daytime.....	8
Using cancelled railroad tickets.....	2
Selling apparatus to prevent conception.....	2
Violating street railroad law.....	2
Violating local option law.....	2
Violating insurance law.....	1
Violating butter law.....	1
Escaping from Workhouse.....	1
Selling intoxicating liquor to minor.....	1
Violating lottery law.....	1
Violating cemetery law.....	1
Playing base ball on Sunday.....	1
Keeping disorderly house.....	1
Violating election law.....	1
Personating officer.....	1
Violating Sunday law.....	1
Sending threatening letter.....	1
Converting mortgaged property.....	2
Unlawful sale of cigarettes.....	1
Maliciously injuring property.....	1
Promoting scheme of chance.....	1
Keeping a resort for criminals.....	1
Permitting house to be used as a house of ill-fame.....	1
Attempting to escape from Workhouse.....	1
Having in possession obscene literature.....	1
Total number.....	1,696

NUMBER OF STATE EXAMINATIONS DISPOSED OF DURING THE
YEAR 1888.

Burglary and larceny.....	74
Grand larceny.....	48
Cutting with intent to wound.....	23
Robbery.....	22
Pocket picking.....	15
Arson.....	11
Forgery.....	11
Fugitive from justice.....	10
Embezzlement.....	10
Manslaughter.....	9
Assault with intent to kill.....	8
Burglary.....	6
Attempting to commit a burglary.....	6
Horse stealing.....	7
Shooting with intent to wound.....	4
Receiving stolen property.....	3
Maiming.....	2
Murder.....	2
Perjury.....	2
Rape.....	2
Shooting with intent to kill.....	2
Obtaining money by false pretenses.....	1
Obtaining property by false pretenses.....	1
Seduction under promise of marriage.....	1
Attempting to commit a felony.....	1
Aiding prisoner to escape.....	1
Assault with intent to rape.....	1
Incest.....	1
Robbing U. S. mail.....	1
Total number.....	285

NUMBER OF CASES COMING FROM JUSTICES' COURTS DISPOSED
OF DURING THE YEAR 1888.

Assault and battery.....	72
Attempting to provoke a breach of the peace.....	18
Verbal libel.....	13
Verbal slander.....	7
Petit larceny.....	6
Resisting officer.....	4
Destroying property.....	3
Adultery.....	3
Indecent exposure.....	2
Neglecting minor children.....	2
Converting mortgaged property.....	2
Violating Local Option law.	2
Violating second hand dealer's law.....	1
Embezzlement.....	1
Pointing and aiming fire-arms.....	1
Cruelty to animals.....	1
Trespass	1
Assault	1
Defrauding hotel keeper.....	1
Challenging to fight at fistionuffs.	1
Total number.....	142

Respectfully submitted,

ROBERT M. CORDES,

Clerk of Police Court.

Report of the Smoke Inspector.

Report of the Smoke Inspector.

CLEVELAND, O., January 1, 1889.

To the Honorable Common Council:

GENTLEMEN:—I have the honor of submitting the following as the summary of my official business for the year ending December 31, 1888:

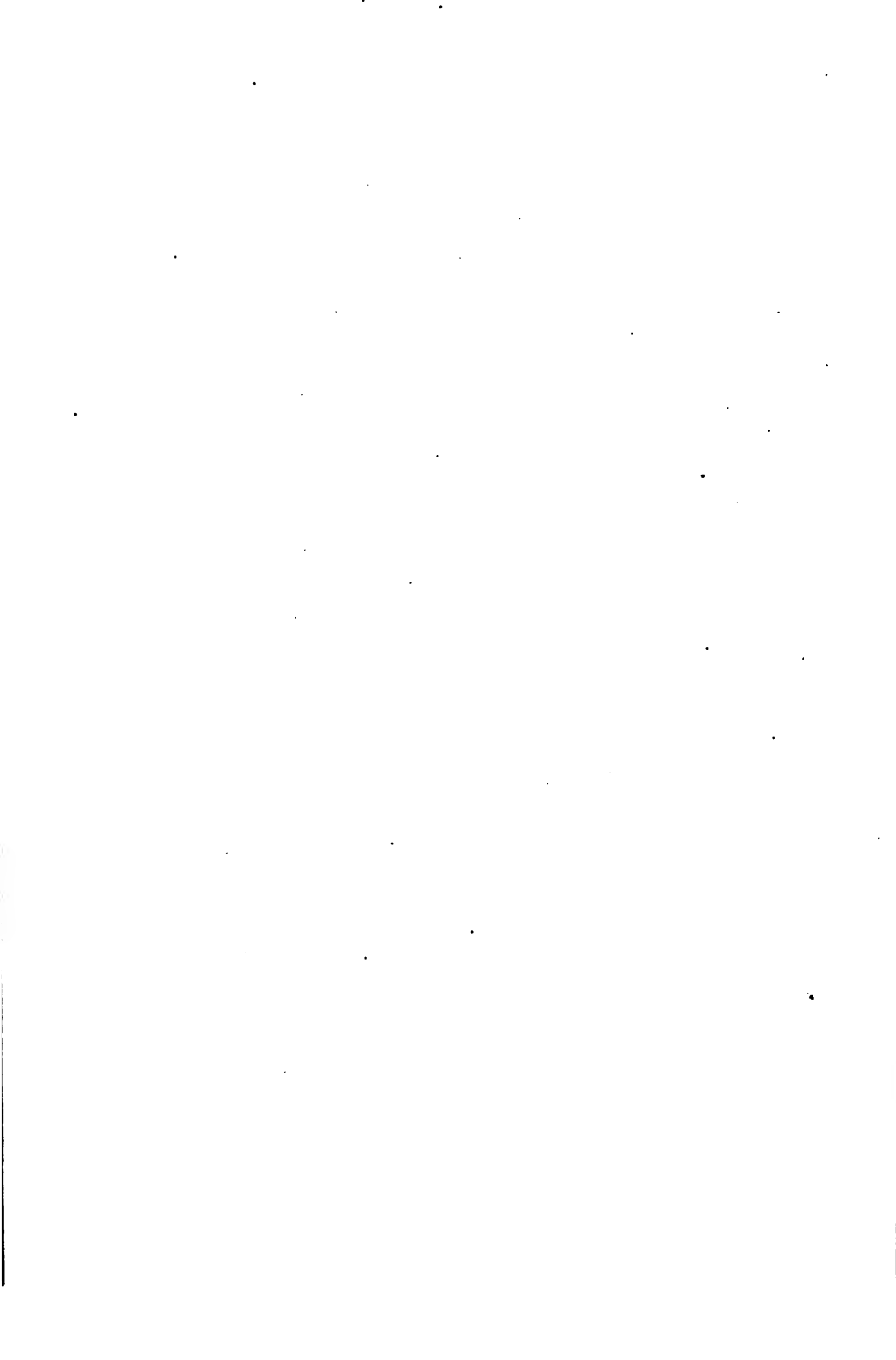
Number of manufactories visited officially	1,105
“ “ smoke complaints entered	46
“ “ notices served	72
“ “ brick stacks erected	2
“ “ iron stacks erected	6
“ “ engineers examined	1,298
“ “ licenses granted	1,034
“ “ applicants rejected	264
“ prosecuted for violating smoke ordinance	2
“ “ “ “ engineers' ordinance	24

Respectfully submitted,

WM. T. JONES,

Smoke Inspector and Examiner of Engineers.

Report of Board of Improvements.



ANNUAL REPORT
OF THE
BOARD OF IMPROVEMENTS.

To the Honorable Common Council:

GENTLEMEN:—The Board of Improvements herewith submits its annual report for the year ending December 31, 1888.

This report embraces accounts of all work and expenditures under the immediate control of the Board, and not falling within the special jurisdiction of the City Civil Engineer or Street Commissioner, who each submit separate reports for their respective departments, showing in detail the amount and extent of all contract work done under the supervision of the Board.

The expenditures authorized by the Board not included in the reports of the Engineer and Street Commissioner are herewith appended.

BRIDGES.

SUPERIOR STREET VIADUCT.

Pay roll.....	\$ 6,757 41
Supplies for repairs.....	114 20
Ordinary supplies.....	393 53
	\$7,265 14

CENTRAL VIADUCT.

Pay roll.....	\$ 656 83	
Supplies for construction, etc.....	656 78	
Ordinary supplies.....	111 50	
		\$ 1,425 11

WILLOW STREET.

Pay roll.....	\$ 3,772 50	
Supplies for repairs.....	41 88	
Ordinary supplies.....	19 70	
		\$ 3,834 08

MAIN STREET.

Pay roll.....	\$ 3,952 95	
Supplies for repairs.....	209 60	
Ordinary supplies.....	200 54	
		\$ 4,363 09

CENTER STREET.

Pay roll.....	\$ 2,638 16	
Supplies for repairs.....	441 59	
Ordinary supplies.....	19 50	
		\$ 3,102 25

SENECA STREET.

Pay roll.....	\$ 1,691 50	
Supplies for repairs.....	70 65	
Ordinary supplies.....	11 75	
		\$ 1,773 90

COLUMBUS STREET.

Pay roll.....	\$ 2,440 50	
Supplies for repairs.....	106 40	
Ordinary supplies.....	14 00	
		\$ 2,560 90

REPORT OF BOARD OF IMPROVEMENTS.

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LOWER CENTRAL WAY.

Pay roll.....	\$ 2,959 88	
Supplies for repairs.....	127 01	
Ordinary supplies.....	19 50	
		\$ 3,106 39

UPPER CENTRAL WAY.

Pay roll.....	\$ 2,836 22	
Supplies for repairs.....	3 69	
Ordinary supplies	16 25	
		\$ 2,856 09

JEFFERSON STREET.

Pay roll.....	\$ 1,634 25	
Supplies for repairs.....	4 10	
Ordinary supplies.....	14 16	
		\$ 1,652 51

WALWORTH RUN.

Pay roll.....	\$ 1,118 25	
		\$ 1,118 25

SWISS STREET.

Pay roll.....	\$ 640 50	
Ordinary supplies.....	6 50	
		\$ 647 00

PEARL STREET VIADUCT.

Supplies for repairs.....	\$ 115 75	
Ordinary supplies.....	10 26	
		\$ 126 01

KINGSBURY VIADUCT.

Pay roll.....	\$ 1,200 00	
Additional masonry on retaining wall.....	40 00	
Constructing drainage sewer.....	322 02	
Relaying paving.....	103 73	
Ordinary supplies.....	27 75	
		\$ 1,693 50

PETRIE STREET.

Pay roll.....	\$ 167 75
Supplies for repairs.....	5 20
Ordinary supplies.....	3 25
	\$ 176 20

ABBEEY STREET.

Pay roll.....	\$ 432 25
Ordinary supplies.....	3 25
	\$ 435 50

EAGLE STREET.

Pay roll.....	\$ 384 25
Supplies for repairs.....	339 48
Ordinary supplies.....	6 50
	\$ 730 23

GENERAL BRIDGE ACCOUNT.

General pay roll.....	\$ 33,283 23
Repairs pay roll	5,087 25
Supplies for repairs.....	2,704 98
Ordinary supplies.....	877 94
General repairs and supplies.....	2,108 12
Total.....	\$ 44,061 52

POUNDS.

TWELFTH, THIRTEENTH, FOURTEENTH, FIFTEENTH AND SEVENTEENTH
WARDS.

Pay roll.....	\$ 160 50
	\$ 160 50

TWENTY-SECOND AND TWENTY-THIRD WARDS.

Pay roll.....	\$ 160 50
	\$ 160 50

THIRTY-EIGHTH AND THIRTY-NINTH WARDS.

Pay roll.....	\$ 160 50	
		\$ 160 50

TWENTY-SIXTH AND TWENTY-SEVENTH WARDS.

Pay roll.....	\$ 180 50	
		\$ 180 50

THIRTIETH WARD.

Pay roll.....	\$ 160 50	
		\$ 160 50

EIGHTEENTH AND NINETEENTH WARDS.

Pay roll.....	\$ 160 50	
Supplies.....	1 75	
		\$ 162 25
		\$ 964 75
Land leased for pound purposes, 26th ward.....	\$ 25 00	
Land leased for pound purposes, 19th ward.....	15 00	
		\$ 40 00
Total expense of pounds.....		\$ 1,004 75

GENERAL EXPENSES.

CITY HALL.

Repairs and supplies to engine room and other departments.....	\$ 1,310	
Coal and kindling.....	1,520 01	
Ice furnished, 30,900 pounds.....	77 25	
Elevator and heating apparatus.....	66 25	
Repairs on offices	602 64	
Repairs on building.....	685 04	
General account	82 50	
		\$ 4,324 25

LIGHTING ACCOUNT.

Brush Electric Light Co.....	\$ 17,353 36
Vapor lamps, lighting and care.....	43,328 25
Gas furnished, new lamps, repairs, etc.....	82,478 77
New lamp posts and street lamps.....	3,815 90
Glass, lanterns, sockets, supports, etc.....	3,537 91
	\$ 150,514 19

SUPERINTENDENTS OF IMPROVEMENTS.

Sewers and culverts.....	\$ 3,309 41
Dredging.....	1,270 90
Curbing, grading, cindering..	829 51
Walworth Run survey.....	318 75
Paving and repaving.....	1,999 63
Sewer and river commission.....	1,219 61
River and harbor commission.....	14 80
Bridge construction.....	8,233 55
General, Engineer's department.....	1,485 09
	\$ 18,731 25

OTHER EMPLOYEES.

Mayor's clerk and clerk of Board.....	\$ 2,000 00
First assistant clerk.....	1,000 00
Second assistant clerk.....	213 56
Third assistant clerk.....	600 00
Sidewalk inspector.....	720 00
Assistant sidewalk inspector.....	178 00
Elevator operator.....	690 00
Engineer of heating apparatus.....	960 00
Firemen of heating apparatus.....	1,320 00
Smoke inspector.....	1,500 00
Assistant harbor master.....	455 00
Deputy building inspector.....	7 26
	\$ 9,643 82

MAYOR'S AND BOARD OF IMPROVEMENTS OFFICERS.

Stationery, printing, lithographing and rubber stamps.....	\$ 177 71
Supplies for office.....	6 50
Repairs on offices.....	268 58
Changing safe combinations in both offices and consolidating tumblers in locks.....	8 00
Watchman's time detector in Board office.....	100 00
	\$ 560 79

CUYAHOGA RIVER.

Towing snags and clearing river.....	\$ 385 00
Sounding.....	197 60
Use of tugs, harbor and river commission.....	8 00
Use of tug and supplies, sewer and river commission.....	229 18
Piling and docking.....	377 94
	\$ 1,202 72

ARMORY ACCOUNT.

Ordinary expenses, including repairs on heating apparatus and building \$	477 84
	\$ 477 84

MARKET ACCOUNT.

CENTRAL MARKET.

Cleaning, repairs, etc.....	\$ 1,128 75
	\$ 1,128 75

WEST SIDE MARKET.

Cleaning, repairs, etc.....	\$ 376 00
	\$ 376 00

NEWBURGH MARKET.

Cleaning, repairs, etc.....	\$ 120 00
Removing night soil.....	29 25
	\$ 149 25

Total market account.....	\$ 1,654 00
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HAY SCALES, CENTRAL MARKET.

Supplies and repairs.....	\$ 7 00
	\$ 7 00

TAYLOR STREET FERRY.

Pay roll.....	\$ 550 00
Supplies.....	3 84
	\$ 553 84

MISCELLANEOUS ACCOUNT.

Jas. Connelly, investigating escape of gas in St. Clair street sewer.....	\$ 12 50
W. P. Rice, expenses examining asphalt paving at Washington, New York and Buffalo.....	143 75
W. P. Rice, cash advanced for switching bill for Central Viaduct.....	2 50
W. R. Webster, inspecting handrailing for Central Viaduct at Phila.	80 00
F. H. Norton, drawings and specifications for engine and boiler house, Central Viaduct.....	50 00
W. H. Dunn, cash advanced.....	40 00
Claim of Chas. Bulow, injury to horse.....	80 00
Claim of S. Stein, injury to horse.....	50 00
B. D. Babcock, money advanced.....	10 34
A. H. Sanborn, veterinary services.....	5 00
John Flinn, rebate on rent.....	75 00
Julius Lembeck, repairs to drinking fountains.....	11 54
Albert Hartzell, extra labor on sidewalks.....	22 50
W. I. Lindsay, pine lumber, Canal street roadway.....	57 97
C. F. Stumm, assistant Building Inspector.....	12 50
Hose purchased.....	157 50
Sinking test wells on East Madison avenue.....	74 00
Jas. Nicoll, dressing stone piers, Central Viaduct.....	13 86
C. Schultz, detail awings, Central Viaduct.....	20 00
Frank Rieley, paving Cliff street hill.....	224 22
Frank Rieley, repaving Jennings avenue hill.....	496 08
Claffen Paving Co., removing top dressing on Franklin avenue hill, be- tween Circle and Gordon avenue.....	43 68
August Godiv, ornamental panels, Central Viaduct.....	45 00
R. H. Probert, expenses inspecting iron and steel at Pittsburgh, for Seneca street bridge.....	57 60
E. S. Doolittle, repairing end of culvert on Wellesley court.....	41 30
Strybos, street filling.....	20 00
Care of telephones.....	12 50
Jno. Mahon, rebuilding culvert, Crawford road.....	252 00
Jno. Mahon, rebuilding stone outlet, Case avenue sewer.....	200 00
Repairs on Bolton avenue culvert.....	107 77
Repairs on Ansel avenue culvert.....	87 54
Repairs on Crawford road culvert.....	27 10
N. Y., L. E. & W. R'y switching bills, central Viaduct.....	731 75
L. F. Beers, Kingsbury Viaduct sewer.....	44 88

Livery hire, Mayor and Board officers.....	105 00
C. & C. R'y Co., labor performed at Petrie street bridge.....	45 15
Cleveland Petroleum Co., rent and use of 18 feet of ground on lot at Pearl street and Walworth run, for Pearl street Viaduct material..	128 00
Street signs.....	6 00
Wm. Hughes, expenses from New York to Philadelphia inspecting iron railing for Central Viaduct.....	10 20
Electric light posts, Central Viaduct.....	6 00
Flag staffs, repairs, halliards, etc., Monumental Square and City Hall....	15 01
Sign for office of Civil Engineer.....	8 00
Smoke Inspector, horse feed and car tickets.....	96 32
Repairing sewer under Euclid avenue embankment.....	106 56
Portage street grading claims.....	49 25
Strybos, street excavation.....	233 02
Removing night soil, Kingsbury Viaduct property.....	24 75
W. P. Rice, cash advanced on account of repairs at Willow street bridge..	5 80
Campbell Bros., repairing Marquette sewer outlet	408 00
Campbell Bros., connecting Doan street and Euclid avenue sewers at in- tersection of Doan street and Euclid avenue.....	54 00
Geo. Fairfax, 20 days night watchman at City Hall in place of Hiram Hill, disabled.....	38 33
V. E. Gregg, money advanced.....	5 28
Frank Reiley, work done at Jennings avenue end of Central Viaduct, under resolution of Board of Improvements, October 5, 1888.....	124 06
W. H. Radcliffe, work performed, dredging and removing logs from City's portion of the Cuyahoga river, May 6 and 7, 1888.....	421 00
L. P. and J. A. Smith, building and placing pontoon bridge at Willow street and use of lighter for same.....	416 20
L. P. and J. A. Smith, repairing damage done to Willow street bridge by Steamer City of Cleveland.....	4 81
L. P. & J. A. Smith, use of lighter for pontoon at Willow street.....	155 00
N. Y., L. E. & W. R'y, services of flagman and watchman at Cen. Viaduct	54 60
Van Dorn Iron Works, stairs, platform, etc. at Central Viaduct.....	860 55

\$ 6,751 22

SUMMARY.

Bridges.....	\$ 44,061 52
Pounds.....	1,004 75
General expense, City Hall.....	4,324 25
Lighting account.....	150,514 19
Superintendents of Improvements.....	18,781 25
Other employes.....	9,643 82
Mayor's and Board offices.....	560 79
Cuyahoga river.....	1,202 72
Armory.....	477 84
Market account.....	1,654 00
Hay scales.....	7 00
Taylor street ferry.....	553 84
Miscellaneous account.....	6,751 22
Grand total.....	\$ 239,487 19

All of which is respectfully submitted.

By order of the Board of Improvements,

SAM BRIGGS,

Clerk.

January 25, 1889.

Report of the Street Commissioner.

Report of the Street Commissioner.

To the Honorable Board of Improvements:

GENTLEMEN:—In compliance with law and custom I herewith submit the Annual Report of the Street Department for the year ending December 31, 1888.

The accompanying tables will show the different kinds of work, also the cost of the same on the various streets of the city, embracing paving repairs, laying and relaying crosswalks, cleaning and rounding of streets, repairs to box gutters, drains, sewers, catch basins, etc., also lumber, hardware, blacksmithing, machine repairs, brick and cement account and the salaries of officers.

There have been complied with 1,018 police and other reports which required immediate attention; also 633 notices served on parties to comply with sections 907, 96 and 889, city ordinances. By a close scrutiny of table No. 1 your Honorable Body will find that the paved streets of the city have been cleaned by the Street Department at no greater cost, mile for mile, than was paid by the city when the work was done by contract. Although there was, virtually, no fund set aside for the laying and repairing of crosswalks there have been 42 crosswalks, containing 2,923 feet, relaid, and 159 new crosswalks containing 13,337 feet. The cleaning of catch basins has been done by this department, also the cleaning of market grounds.

According to Auditor's statement, the expenses under this department for the fiscal year, 1888, were \$105,069.95; to this add \$1,112.65,

the difference in bills of December, 1887, and December, 1888, leaving \$106,182.60 expenses for the year 1888. Of this amount \$5,269.79 was expended by sources other than the Street Department, which leaves \$100,912.81 expenditures by Street Commissioner. From this is to be deducted \$11,893.14 collected for street paving repairs, puddling permits, the cleaning of markets, etc., which leaves net expense by this department \$89,019.67.

I deem it excusable to refer, with satisfaction, to the fact that the city has not been mulcted in any damages arising from negligence on the part of the Street Department. With thanks to the various employes of the department for their faithful co-operation, I now respectfully submit the following tables.

FRANK BUETTNER,

Street Commissioner.

REPORT OF THE STREET COMMISSIONER.

SHOWING CHARACTER AND COST OF ALL REPAIRS TO STREETS, UNDER STREET COMMISSIONER DURING THE YEAR.

[illegible]

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets Flush'g Sewers.	Mason Repair and Cleaning Catch Basins.	Carpent'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Milling on Unpaved Streets.	Total.
Ash.....	\$.....	\$.....	\$ 4 12	\$.....	\$.....	\$.....	\$.....	\$ 4 12
Ashland avenue..							37 75	37 75
Aspen.....			20 62		2 75			23 37
Asylum.....	8 25							8 25
Atlantic.....		45 00					252 25	252 25
Auburn.....							125 75	125 75
Axtell.....							205 27	205 27
Armory.....							19 50	19 50
Alley at No. 2 Engine House..				12 25				12 25
Alley rear of 348 Franklin..				6 00				6 00
Alleys.....						38 57	483 50	533 07
Bailey.....							63 25	63 25
Ballou.....	10 26		2 37				49 50	62 13
Bank.....	16 12	22 50	7 25	43 56		291 12		390 56
Barber avenue.....			4 12				20 25	36 87
Barkwill avenue					12 50		60 62	73 12
Bayne.....			4 12		25 00		6 50	35 62

REPORT OF THE STREET COMMISSIONER.

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush'g Sowers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Crosse- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Beck.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 15 50	\$ 15 50
Becker avenue.....	.....	.....	8 75	.....	10 50	.....	.....	19 25
Beckwith avenue.....	.....	7 50	.....	.....	.....	.....	26 75	34 25
Beech.....	.....	.....	.....	.....	.....	.....	23 00	23 00
Belden.....	.....	.....	.....	.....	.....	.....	63 40	63 40
Bell avenue.....	.....	.....	.....	.....	.....	.....	15 00	15 00
Belmont.....	.....	.....	.....	.....	.....	.....	10 00	10 00
Benton's alley.....	.....	.....	.....	.....	4 88	.....	.....	4 88
Berg.....	.....	.....	.....	.....	.....	.....	3 50	3 50
Bergen.....	.....	.....	.....	.....	17 50	.....	10 50	28 00
Birch.....	52 98	.....	.....	.....	.....	.....	21 50	74 38
Bissell.....	.....	.....	.....	.....	.....	.....	167 13	167 13
Blair.....	.....	.....	.....	.....	.....	.....	10 00	10 00
Blanche.....	.....	.....	8 75	.....	.....	.....	12 00	20 75
Bliss.....	.....	.....	.....	.....	12 50	.....	.....	12 50
Bolivar.....	22 69	3 75	.....	12 00	.....	78 74	31 75	148 93
Bolton avenue.....	21 50	.....	13 25	.....	.....	.....	215 14	249 89

TABLE NO. I.—Continued.

[illegible]

REPORT OF THE STREET COMMISSIONER.

TABLE NO. I.—Continued.

Streets.	Putting Streets and Flush Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutter, Paving Repairs, Drains, &c.	Laying and Relaying Cose- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Brunswick.....	\$ 6 00	\$	\$	\$	\$	\$ 27 00	\$ 33 00
Buckeye.....						8 00	8 00
Buckley.....			33 00			135 50	168 50
Buell.....			4 75			15 50	20 25
Bahrer avenue.....						33 00	33 00
Burke.....						4 00	4 00
Barton.....			97 14			413 87	511 01
Burwell.....			26 75	37 50		21 00	85 25
Backus alley.....						7 25	7 25
Calvert.....						10 00	10 00
Canal.....	77 86				115 61	272 51	506 98
Canfield.....			6 50			24 50	31 00
Canton.....						222 96	222 96
Carr.....			7 13			41 00	48 13
Carroll.....						27 50	27 50
Carter.....					52 43		97 43
Case avenue.....	146 56	6 00	8 75	18 38	279 68	87 50	546 87

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush & Sowers.	Mason Repairs and cleaning Catch Basins.	Carters' Labor on Box Graters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Case place.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 5 78	\$.....	\$ 5 78
Castle avenue.....	40 37	26 25	9 00		4 37		9 75	23 12
Cedar avenue.....	8 50	2 25	32 75		22 75	7 00	98 63	227 75
Center		30 00	4 38	45 00		341 18		401 31
Central Way.....			12 88	240 62		377 31		660 81
Champlain.....			6 50	73 07		140 04		219 61
Chapel.....							16 00	16 00
Charles							18 00	18 00
Chatham	5 38		38 01				54 75	99 14
Cherry.....							10 50	10 50
Cherry alley.....							8 00	8 00
Cheshire.....							13 25	13 25
Chestnut					4 50		42 00	46 50
China.....							4 00	4 00
Church							114 87	114 87
Claasen.....							40 00	40 00
Clark avenue.....	6 00		128 98	9 50	109 00		410 25	681 73

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Carse- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Cleve.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 5 00	\$ 5 00
Cliff			21 38				4 00	25 38
Clifton.....							30 75	30 75
Clinton.....		11 25					230 99	271 24
Cloud.....							55 75	55 75
Colgate.....			13 87				19 50	33 37
College.....			4 12				10 00	14 12
Columbus.....	20 25	15 00	9 00	31 50		77 19	92 87	235 81
Commercial.....		3 75		7 50		58 94		70 19
Concord.....			10 25					10 25
Conrad.....			9 00				21 38	30 38
Cooper.....							30 00	30 00
Cornell.....	10 75							10 75
Court place.....				27 00		16 87		43 87
Courtland.....	6 00						69 00	75 00
Covington.....							42 25	42 25
Crawford.....			53 25				34 37	87 62

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpent' Labor on Box Outlets, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Creighton.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 6 00	\$ 6 00
Crosby.....	8 75		8 75				8 75	8 75
Cross.....			61 75				380 31	422 06
Crotou.....			22 88		17 75		93 00	133 63
Curtis avenue.....	8 75							8 75
Curve.....					12 00			12 00
City Stairs.....							7 25	7 25
City Hall yard.....	4 37		65 26				59 63	129 26
Crosswalks.....						780 99	1,112 83	1,873 87
Cleve court.....					9 38		10 50	19 88
Circle.....							11 00	11 00
Central Market.....	17 25					65 67		82 92
Central Viaduct.....				9 37		108 02		117 39
Court alley.....				7 50				7 50
Catch Basins (cleaned).....		2,619 37						2,619 37
Central Place.....						4 28		4 28
Dale alley.....	6 57							6 57

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sowers.	Mason Repairs and Cleaning Catch Basins.	Cartmen & Labor on Box Gutters, Drains, &c.	Paving Requires.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Dave.....	\$.....	\$.....	\$ 4 12	\$.....	\$ 12 50	.....	\$ 68 88	\$ 85 50
Davenport.....	.....	.....	8 75	.....	12 50	.....	.....	21 25
Davis.....	.....	7 50	45 37	2 75	.....	128 12	Yard. 20 00	283 74
Davis court.....	10 75	.....	.....	.....	.....	.....	.....	10 75
Dayton.....	5 37	.....	4 75	.....	.....	.....	8 00	18 12
Decker avenue.....	.....	.....	23 25	.....	.....	.....	.....	23 25
Delaware.....	.....	.....	.....	.....	.....	.....	.....	44 50
Detroit.....	.....	17 25	13 88	30 00	.....	842 37	44 50 5 75	949 25
Detroit court.....	6 00	.....	.....	.....	.....	.....	.....	6 00
Dexter place.....	.....	.....	.....	.....	.....	.....	6 00	6 00
Diamond Park.....	.....	.....	.....	.....	.....	15 93	.....	15 93
Dieboldt place.....	.....	.....	.....	.....	.....	1 43	.....	1 43
Ditton.....	.....	.....	.....	.....	.....	.....	.....	39 25
Division.....	.....	.....	.....	.....	.....	1 50	39 25	78 75
Doan.....	.....	.....	33 76	.....	.....	.....	77 25	228 26
Dodge.....	.....	.....	9 50	.....	.....	.....	194 60	278 82
Dolloff.....	.....	.....	9 50	.....	12 50	.....	289 82	79 25

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush & Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter's Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Douse	\$.....	\$.....	\$ 21 50	\$.....	\$ 8 75	\$.....	\$ 24 00	\$ 54 25
Duane		7 50	106 87	.....	.....	.....	68 75	184 12
Dunham avenue.....					42 20	.....	.....	42 20
Eagle	34 62	.....	.....	8 75	.....	31 79	39 75	109 91
E. Clark avenue.....			8 75	.....	.....	.....	83 00	91 75
E. Madison avenue			8 50	.....	24 05	.....	570 63	608 18
E. Prospect					2 50	.....	94 38	96 88
Eben							40 18	40 18
Edward's avenue.....			9 50	.....	.....	.....	16 00	25 50
Elm		22 50	.....	9 12	.....	188 75	.....	220 37
Elmo							82 00	82 00
Emmet							42 87	42 87
Empress							7 25	7 25
Engel avenue.....			14 50	.....	.....	.....	175 25	189 75
Ensign							24 00	24 00
Eris	1 09	.....	3 62	49 60	.....	383 68	14 00	451 99
Erin avenue.....			55 13	.....	.....	.....	.....	55 13

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Pudding Streets and Flush & Sewer.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Girders, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Essex	\$	\$	\$	\$	\$ 12 50	\$	\$	\$ 12 50
Euclid avenue.....	50 12	9 00	.....	126 50	.....	1,849 60	.....	2,035 22
E. River.....	25 88	3 75	.....	21 13	.....	.....	.....	50 76
Factory.....	.....	.....	57 00	.....	.....	.....	447 24	504 24
Fairfield.....	.....	.....	12 13	.....	.....	.....	39 00	51 13
Fairmount .....	.....	.....	.....	.....	5 00	.....	20 12	25 12
Fifth .....	.....	.....	.....	.....	.....	.....	35 00	35 00
Fifth avenue.....	.....	.....	23 75	.....	.....	.....	18 60	41 75
Finn .....	.....	.....	.....	.....	14 38	.....	40 75	55 13
Fir .....	.....	.....	.....	.....	.....	.....	7 00	7 00
Fleet .....	.....	.....	8 75	.....	.....	.....	7 00	15 75
Flint .....	.....	.....	.....	.....	.....	.....	14 10	14 00
Florence	10 75	.....	.....	.....	.....	.....	.....	10 75
Ford .....	.....	.....	.....	.....	.....	.....	4 50	4 50
Forest .....	.....	15 00	16 00	10 75	7 80	.....	214 50	284 06
Forman .....	.....	.....	.....	.....	10 00	.....	28 38	38 38
Fountain .....	.....	.....	9 75	.....	.....	.....	7 00	16 75

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Killing on Unpaved Streets.	Total.
Fourth	\$	\$	\$ 28 50	\$	\$	\$	\$ 173 18	\$ 201 68
Fowler			4 37	.....	.....	.....	.....	4 37
Francis			9 50	.....	25 56	.....	42 00	77 06
Frankfort				14 63	.....	93 04	.....	107 67
Franklin avenue.....	6 00	11 25	48 13	131 50	39 75	238 57	39 12	514 32
Franklin alley.....			57 00	.....	.....	.....	.....	57 00
Franklin court.....			8 25	.....	.....	.....	.....	8 25
France avenue.....			8 75	.....	12 50	.....	12 00	33 25
Freeman.....			4 87	.....	.....	.....	18 00	22 87
French	4 37	.....	14 25	.....	.....	46 00	.....	64 62
Front.....		3 75	42 00	9 06	6 50	83 16	.....	144 47
Fullerton							23 00	23 00
Fulton.....		7 50	4 13	6 00	.....	228 40	.....	246 03
Fulton alley.....							5 00	5 00
Foster's alley.....							1 50	1 50
Gallup.....			9 50	.....	15 25	.....	30 25	55 00
Garden		105 00	.....	257 25	9 25	415 42	185 00	971 92

REPORT OF THE STREET COMMISSIONER.

TABLE NO. I.—Continued.

Streets.	Pudding Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Crosse- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Road- ing and Filling on Unpaved Streets.	Total.
Garden court.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 10 00	\$ 10 00
Garden place.....							17 50	17 50
Gauge.....			4 87	.....	12 50	.....	165 25	122 62
Gaylord.....							23 00	23 00
Geneva.....					2 15	.....	.....	2 15
German.....						22 00	.....	22 00
Giddings avenue.....			13 75	.....	17 96	.....	81 70	113 21
Girard.....			4 12	.....	.....	.....	.....	4 12
Glazier.....							16 00	16 00
Gleuroy.....							10 00	10 00
Goethe.....							55 00	55 00
Gordon.....		15 00	30 12	.....	40 63	.....	181 25	267 00
Grace.....					5 50	.....	.....	5 50
Grand avenue.....			18 62	.....	.....	.....	86 75	105 37
Grant.....							12 00	12 00
Green.....			4 12	.....	.....	.....	35 25	39 37
Greenwood.....			4 75	.....	.....	.....	68 25	73 00

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Grove.....	\$	\$	\$	\$	\$	\$	\$ 6 00	\$ 6 00
Guernsey.....	.....	.....	12 38	.....	.....	.....	12 38	12 38
Guthrie.....	.....	.....	.....	.....	9 37	.....	9 37	9 37
Guy.....	.....	.....	.....	.....	12 50	.....	60 37	72 87
Hackman.....	.....	.....	.....	.....	.....	.....	20 00	20 00
Hague.....	.....	.....	13 38	.....	.....	.....	16 00	16 00
Hanburgh.....	.....	.....	.....	.....	.....	.....	22 25	35 63
Hamilton.....	35 00	52 50	13 25	.....	.....	.....	144 12	244 87
Hamm.....	.....	.....	26 25	42 50	52 75	.....	210 50	331 50
Hancock.....	.....	.....	4 88	.....	.....	.....	26 50	31 38
Hanovert.....	.....	.....	22 13	.....	.....	.....	145 00	167 13
Harbor.....	.....	.....	13 13	.....	.....	.....	44 60	57 63
Harkness avenue.....	.....	.....	26 25	.....	.....	.....	49 00	75 25
Harmon.....	.....	.....	.....	.....	.....	.....	45 00	45 00
Harper.....	12 75	.....	.....	.....	.....	.....	38 00	50 75
Harrison.....	.....	.....	.....	.....	.....	.....	1 50	1 50
Hartford.....	9 75	.....	9 75	.....	.....	.....	28 25	38 00

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Putting Streets and Flush & Sewers.	Mason Repairs (Carpenter Labor and Cleaning on Box Gutters, Trains, &c.)	Paving Repairs.	Laying and Relaying Cross walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Harvard	\$	\$	\$	\$	\$	\$ 345 50	\$ 345 50
Hawthorne avenue						40 00	40 00
Hayward						11 00	11 00
Hazen						6 00	6 00
Henry						8 00	8 00
Herald		17 50	.....	.....	.....	100 50	118 00
Hermann		16 50	.....	.....	.....	.....	16 50
Herrick court		8 75	.....	.....	.....	.....	8 75
Herschell		4 12	.....	.....	.....	.....	70 12
Hexter alley				6 25	.....	66 00	6 25
Hickox	11 25	3 75	.....	.....	8 15	.....	23 15
Hicks	3 00	.....	4 13	.....	.....	31 00	39 13
Higgins				12 25	.....	116 38	128 63
Hill					29 30	23 38	52 68
Hillman avenue						34 00	34 00
Hinde						16 00	16 00
Hitchcock		32 63	1 50	.....	.....	21 00	58 13

TABLE NO. 1.—Continued.

[illegible]

TABLE No. 1.—Continued.

[illegible]

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Crosse- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Judd	\$	\$	\$	\$	\$	\$	\$ 17 00	\$ 17 00
Julia .....	.....	.....	14 25	.....	.....	.....	5 00	19 25
Junction .....	.....	.....	38 25	.....	6 00	.....	9 25	53 50
Keene alley .....	.....	.....	.....	.....	.....	.....	30 00	30 00
Kelly .....	.....	.....	.....	.....	20 00	.....	10 25	30 25
Kennard	17 50	.....	.....	.....	8 75	.....	91 71	117 96
Kent .....	.....	.....	.....	.....	.....	.....	5 00	5 00
Kentucky .....	.....	.....	20 63	.....	.....	45 11	68 50	135 24
King .....	.....	.....	.....	.....	6 00	.....	31 00	37 00
Kinkel .....	.....	.....	.....	.....	.....	.....	9 50	9 50
Kinsman .....	.....	15 00	.....	694 76	.....	22 00	264 75	996 51
Kirtland .....	.....	.....	.....	.....	9 38	.....	24 25	33 63
Lake	73 75	41 25	22 62	18 00	20 62	166 47	149 75	492 46
Laurel .....	.....	.....	.....	.....	.....	.....	15 00	15 00
Lawn .....	.....	.....	13 88	.....	.....	.....	18 75	32 63
Lawrence .....	.....	7 50	9 50	.....	6 25	.....	65 00	88 25
Leonard	5 37	.....	.....	84 00	.....	22 95	.....	112 32

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Cutch Basins.	Carpent'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Lester	\$ 27 50						\$ 29 75	\$ 29 75
Lena avenue.....		7 50			12 50			27 50
Lexington avenue.....								20 00
Liberal							10 75	10 75
Liberty					3 00		20 00	23 00
Lincoln avenue.....				4 50			46 50	51 00
Linden							41 25	41 25
Linwood.....							17 50	17 50
Literary			9 00	4 50		11 25	75 75	100 50
Long	14 94			78 75		120 90		214 59
Longwood avenue.....							42 50	42 50
Lorain.....	14 25	7 50	17 00	220 25	5 75	1,228 33	84 01	1,577 09
Louis.....			8 25				47 25	55 50
Lyman							48 51	48 51
Lane							25 25	25 25
Mabel							16 62	16 62
Mahoning			9 50				21 50	31 00

TABLE NO. 1.—Continued.

Streets.	Puddl'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repaired.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Main	\$ 10 75	\$ 28 13	\$	\$ 21 02	\$	\$ 124 33	\$	\$ 184 23
Mandrake .....	.....	.....	.....	.....	.....	.....	2 75	2 75
Maple .....	.....	.....	.....	15 00	.....	.....	20 00	35 00
Marble .....	.....	.....	.....	.....	.....	.....	60 00	60 00
Marion .....	.....	.....	.....	.....	.....	.....	16 00	16 00
Market .....	.....	.....	.....	12 00	.....	15 55	1 25	28 80
Marquardt .....	.....	.....	16 50	.....	.....	.....	37 25	53 75
Marquette	3 00	.....	.....	.....	.....	.....	.....	3 00
Martin .....	.....	.....	23 13	.....	2 50	.....	23 50	49 13
Mason	4 25	.....	7 25	.....	.....	.....	.....	11 50
Mayflower .....	.....	.....	.....	.....	.....	.....	12 00	12 00
McBride .....	.....	.....	9 50	.....	38 62	.....	42 37	90 49
McConnell .....	.....	.....	37 75	.....	.....	.....	42 50	80 25
McHenry .....	.....	.....	.....	.....	.....	.....	32 25	32 25
McLean	8 25	.....	.....	.....	.....	.....	19 50	27 75
Mead avenue.....	.....	.....	4 38	.....	.....	.....	52 50	56 88
Meadow .....	.....	.....	.....	3 00	.....	24 16	.....	27 16

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Paving Streets and Filling Sewers.	Mason Repairs and Curbing Curb Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Mechanic	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 10 00	\$ 10 00
Mentor avenue.....	.....	.....	4 87	.....	.....	.....	10 00	14 87
Merchant avenue.....	.....	.....	8 25	.....	.....	.....	23 50	31 75
Merwin	19 50	15 00	.....	33 06	.....	148 91	.....	216 47
Meyer avenue.....	.....	.....	8 00	.....	.....	.....	28 00	36 00
Miami.....	8 75	.....	.....	.....	.....	.....	.....	8 75
Michigan.....	.....	.....	.....	36 82	9 50	79 16	.....	124 98
Middle .....	.....	.....	.....	.....	.....	.....	8 71	8 71
Miles .....	.....	.....	.....	.....	.....	.....	142 00	142 00
Miles park.....	.....	.....	16 00	.....	.....	.....	35 00	51 00
Milford.....	.....	.....	8 24	.....	.....	.....	53 62	61 86
Mill .....	.....	7 50	51 39	.....	.....	.....	58 13	117 02
Milton.....	.....	.....	.....	.....	.....	.....	16 75	16 75
Minnesota.....	.....	.....	.....	.....	.....	.....	30 00	30 00
Monroe.....	4 25	.....	4 12	.....	.....	.....	28 50	36 87
Moore.....	.....	.....	.....	.....	.....	.....	6 25	6 25
Muirson.....	.....	.....	.....	.....	7 50	.....	37 07	44 57

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpent'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Mulberry	\$	\$ 13 12	\$ 4 12	\$	\$	\$	\$ 66 50	\$ 83 74
Myrtle	13 12						39 13	39 13
Myrtle court								13 12
Market, East Side							906 13	906 13
Market, West Side							507 00	507 00
New							146 50	146 50
Newark			9 75					9 75
Newell							18 00	18 00
Newton							12 00	12 00
Nicola							23 00	23 00
Noble	2 18			4 50		22 05		28 73
North place							10 50	10 50
N. Woodland avenue				9 00				9 00
Norwood avenue	8 25							8 25
Nursery			9 50		9 37		40 00	58 87
N. Logan							16 00	16 00
Oak				12 00			5 00	17 00

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Curpen'r Labor on Box gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Crosswalks.	Cleaning Paved Streets and Alleys.	Cleaning, Round-ing and Filling on Unpaved Streets.	Total.
	\$.	\$.	\$.	\$.	\$.	\$.	\$.	\$.
Oakdale.....								20 00
Oakley.....					12 50			12 50
Ohio.....			4 37	4 37	2 50	81 93	68 50	161 67
Old River.....	9 00			21 00		319 37	12 00	361 37
Olive.....							7 70	7 70
Oliver.....			3 62				22 50	26 12
Ontario.....	10 75	7 50	18 26	172 37		694 26		903 16
Orange.....			9 50	15 03	12 50	7 00	274 25	318 28
Orchard.....							9 00	9 00
Oregon.....	8 75						46 50	55 25
Orth.....							6 50	6 50
Osage.....							36 00	36 00
Osborn.....							22 00	22 00
Otokar.....							6 00	6 00
Outhwaite avenue.....			27 00		11 50		55 37	93 87
Orange extension.....							26 00	26 00
Opening gutters.....						88 75	173 50	262 25

TABLE NO. 1.—Continued.

Streets.	Puddl'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Park	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 30 00
Park place .....	.....	.....	.....	.....	.....	.....	4 00	4 00
Parkman .....	.....	.....	.....	6 00	.....	57 27	.....	63 27
Paton .....	.....	.....	7 25	.....	.....	.....	.....	7 25
Payne avenue.....	155 38	10 00	44 88	.....	14 63	.....	190 45	405 34
Peach .....	.....	.....	.....	.....	.....	.....	9 62	9 62
Pear .....	.....	.....	15 50	.....	37 25	.....	6 50	59 25
Pearl	18 00	67 50	4 88	144 00	8 87	1,736 42	.....	2,029 67
Pearl court.....	.....	.....	.....	13 50	.....	.....	.....	13 50
Pelton avenue.....	.....	.....	13 86	.....	.....	.....	34 25	48 11
Penn .....	.....	.....	4 88	.....	30 25	.....	43 00	78 13
Percival .....	.....	.....	.....	.....	.....	.....	34 00	34 00
Pertins avenue.....	.....	.....	.....	.....	.....	.....	35 00	35 00
Perry .....	.....	7 50	10 25	141 75	24 73	224 81	39 19	448 28
Perun .....	.....	.....	.....	.....	.....	.....	24 00	24 00
Petrie	6 99	7 50	185 75	3 00	165 10	.....	315 75	685 09
Petroleum .....	.....	.....	.....	.....	18 37	.....	.....	18 37

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpent' Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Phelps.....	\$.....	\$.....	\$.....	\$.....	\$ 3 12	\$.....	\$ 38 12	\$
Pine.....	24 00	7 50	19 00	11 00		13 50	5 00	56 00
Pittsburgh.....			9 75				28 25	45 25
Platt.....							33 00	42 75
Pleasant.....							6 00	6 00
Plum.....							40 50	63 75
Pollock.....			9 01		23 25		20 75	42 26
Poplar.....					12 50		12 00	12 00
Portland.....								11 00
Prague.....							45 35	45 35
Pratt.....							20 00	38 12
Professor.....			13 12					1,354 38
Prospect.....	49 76	6 25		191 13		1,107 25		12 50
Purdy.....								300 84
Public Square.....	9 17			31 50	5 00	255 17		32 25
Putnam.....								3,066 71
Permits.....	3,066 71							

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sowers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Leaving and Relaying C'ross walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Ruggles	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 24 70	\$ 24 70
Russell avenue.....		7 50					51 50	59 00
Rusia.....			59 51					59 51
Ridge avenue.....			23 63					304 31
Sackett			27 51		100 00		90 50	94 76
Sago	10 75						67 25	10 75
Sawtell avenue.....			31 75				117 00	148 75
Sawyer			18 25					18 25
Schilling.....								25 50
Scott							23 50	23 50
Scovill		62 50	10 25	41 62	43 75	344 04	57 00	589 16
Scranton avenue.....	59 88	11 25	28 50	87 50	12 50	332 71	285 62	827 96
Seager.....							5 12	5 12
Second avenue.....							23 00	23 00
Seelye avenue.....							19 00	19 00
Selden avenue.....					30 00			30 00
Seneca.....	56 25	15 00	45 62	113 75		280 63	9 00	520 24

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush'g Sowers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Seyler alley.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 9 17	\$.....	\$ 9 17
Seymour avenue.....							19 50	19 50
Sherbrook							27 50	27 50
Sheriff				30 50	.....	186 55	.....	217 05
Short							6 00	6 00
Siam			4 13	.....	.....	.....	4 38	8 51
Sibley			4 37	.....	5 50	.....	214 50	224 37
Sixth avenue.....		3 75	.....	.....	.....	.....	.....	3 75
Sked							6 50	6 50
Smith			8 90	.....	.....	.....	6 50	15 49
Smith alley.....	8 25	.....	.....	.....	.....	.....	.....	8 25
South Water.....		7 50	.....	42 00	.....	13 19	.....	62 69
Spring	12 38	.....	.....	6 00	6 00	21 50	57 75	103 63
Spruce.....		15 00	.....	23 25	.....	.....	6 00	44 25
Staford							31 00	34 00
Star avenue.....							39 75	39 75
Starweather avenue.....			16 25	.....	.....	.....	294 00	310 25

TABLE NO. 1.—Continued.

Streets.	Pudding Streets and Flushing Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpenter Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross-walks.	Cleaning Paved Streets and Alleys.	Cleaning, Rounding and Filling on Unpaved Streets.	Total.
State.....	\$.....	\$.....	\$ 4 88	\$.....	\$.....	\$.....	\$ 66 25	\$ 71 13
St. Clair.....	23 52	11 25	4 75	67 50	18 75	1,215 27	57 00	1,428 04
South Logan.....							23 00	23 00
South Bell avenue.....			8 75					8 75
Sterling.....	14 75		4 75			7 87	197 50	224 87
Stones Levee.....				16 50			246 12	262 62
St. Paul.....			4 12				8 00	12 12
Strybos.....							59 50	59 50
Summit.....			4 38		25 00		19 00	48 38
Summer.....							16 00	16 00
Superior.....	60 82	32 50	33 12	130 86	66 00	1,338 83	70 50	1,732 63
Swiss.....			27 01		3 00		184 00	214 01
Southworth alley.....	36 50					26 75		63 25
Sweeping tracks.....						4 00		4 00
Sweepers cleaned.....							111 75	111 75
Sweepers repaired.....							485 50	485 50
Street Com. Office.....			7 50				9 00	16 50

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpent'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Salting catch basins.....	\$.....	\$ 179 62		\$.....	\$.....	\$.....	\$.....	\$ 179 62
Syora.....					23 00			23 00
Taylor.....	10 25	7 50	36 13		3 12		281 75	388 75
Thurman.....			9 75					9 75
Tod.....			19 00		29 50		309 38	357 88
Townsend.....			4 75				33 25	38 00
Tracy.....			53 63				19 25	72 88
Train.....			43 12		12 50		42 00	97 62
Tremont.....			8 00				13 50	21 50
Trumbull.....			28 50					28 50
Turney avenue.....			6 50					
Twenty-third avenue.....							323 63	330 13
Union.....			9 00				27 00	27 00
University.....	6 00		4 13				145 75	154 75
Union Depot.....							49 00	59 13
Vega.....			20 63			26 50		26 50
Vermont.....			132 63		12 50		50 25	83 38
					12 50		153 50	298 63

TABLE NO. I.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Manor Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutter, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Pavement Streets and Alleys.	Cleaning, Haul- ing and Filling on Unpaved Streets.	Total.
Vestry	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 8 00	\$ 8 00
Victor .....	.....	.....	.....	.....	.....	.....	6 00	6 00
Vincent .....	.....	.....	.....	.....	.....	12 00	.....	12 00
Vine .....	.....	.....	.....	.....	.....	.....	6 00	6 00
Viaduct	23 00	.....	.....	6 50	.....	672 25	3 25	705 03
Vinegar Hill.....	.....	.....	.....	.....	.....	.....	146 35	146 35
Wade avenue.....	.....	.....	27 75	.....	12 50	.....	30 75	71 00
Wade Park avenue	16 12	.....	30 37	.....	.....	.....	.....	46 49
Wadsworth.....	.....	.....	.....	.....	.....	.....	7 00	7 00
Walker .....	.....	.....	.....	.....	.....	.....	15 00	15 00
Wall	4 25	.....	.....	.....	.....	.....	8 00	12 25
Walnut .....	.....	.....	.....	.....	.....	.....	31 50	31 50
Walton avenue.....	8 25	.....	29 25	.....	4 38	.....	25 00	66 88
Ward .....	.....	.....	3 13	.....	.....	.....	11 75	14 88
Warden .....	.....	.....	.....	.....	.....	.....	6 00	6 00
Waring.....	.....	.....	.....	.....	.....	.....	42 50	42 50
Warner road.....	.....	.....	4 37	.....	.....	.....	.....	4 37

TABLE NO. 1.—Continued.

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Cross- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
Warren	\$.....	\$.....	\$ 52 50	\$.....	\$ 41 46	\$.....	\$ 32 50	\$ 126 46
Washington			9 00				203 62	212 62
Wason			43 75				62 62	106 37
Water				12 00		227 04		239 04
Waverly avenue.....	3 00	45 00	42 37		15 00		54 00	159 37
Webster			8 75				12 00	20 75
Weckerling.....					6 25		84 62	90 87
Weddell							8 50	8 50
West				4 50		21 38		25 88
W. Madison avenue.....			14 63					14 63
W. River		7 50		1 87		368 25		377 62
Wheller's place.....							10 00	10 00
Whitman	4 13	7 50					13 75	25 38
Wigman lane.....							15 50	15 50
Willcutt avenue.....			8 75					8 75
Willitt	8 25		24 37				3 00	35 62
Willey			20 00		6 13		200 38	226 51

REPORT OF THE STREET COMMISSIONER.

TABLE NO. 1.—*Concluded.*

Streets.	Pudd'g Streets and Flush'g Sewers.	Mason Repairs and Cleaning Catch Basins.	Carpen'r Labor on Box Gutters, Drains, &c.	Paving Repairs.	Laying and Relaying Crosse- walks.	Cleaning Paved Streets and Alleys.	Cleaning, Round- ing and Filling on Unpaved Streets.	Total.
William	\$ 6 75	\$	\$	\$	\$	\$	\$ 12 00	\$ 18 75
Willson avenue.....	116 56	18 75	37 63	319 25	147 69	178 90	601 31	1,420 09
Winslow .....	.....	.....	4 13	.....	.....	.....	21 25	24 34
Winter .....	.....	.....	.....	22 50	.....	20 00	.....	42 50
Winnenden .....	.....	.....	.....	.....	12 50	.....	.....	12 50
Wood	42 75	7 50	5 12	17 00	5 00	48 43	16 50	142 30
Woodbine .....	.....	.....	4 87	.....	.....	.....	20 00	24 87
Woodland	28 13	21 25	.....	774 11	31 25	2,221 20	452 01	3,527 95
Woodland court.....	.....	15 00	.....	.....	.....	.....	.....	15 00
Woodland Hills avenue.....	.....	.....	9 50	17 50	9 19	.....	158 00	191 19
Wright .....	.....	.....	.....	.....	.....	.....	18 00	18 00
West alley.....	.....	.....	.....	.....	.....	7 50	.....	7 50
West Side office.....	.....	.....	4 87	.....	.....	.....	.....	4 87
York .....	.....	.....	4 12	.....	.....	.....	75 88	80 00
Total.....	\$ 5,046 80	\$ 3,939 74	\$ 4,622 88	\$ 6,066 31	\$ 2,661 74	\$ 24,558 35	\$ 30,469 20	\$ 77,365 02

TABLE NO. 2.
SHOWING CHARACTER AND COST OF REPAIRS TO STREETS, CULVERTS, SEWERS, ETC.,
DURING THE YEAR, NOT ENUMERATED IN TABLE NO. 1, AS PER BILLS RENDERED.

Streets.	Gravel and Filling, Cost.	Asphalt paving repairs, Cost.	Flagging removed, Cost.	Flagging laid, Cost.	Repairs to Culverts, Cost.	Repairs to Sewers and Catch Basins, Cost.	Total.
Bank	\$	\$ 6 75	\$	\$	\$	\$	\$ 6 75
Bergen .....	.....	.....	3 60	13 50	.....	.....	17 10
Birch .....	.....	.....	.....	.....	.....	69 87	69 87
Bolton avenue .....	.....	.....	.....	.....	178 57	.....	178 57
Bond .....	.....	3 00	.....	.....	.....	.....	3 00
Bridge	11 40	.....	.....	.....	.....	.....	11 40
Broadway .....	.....	28 35	.....	.....	24 25	.....	52 60
Buckley .....	.....	.....	.....	93 00	.....	.....	93 00
Center .....	.....	.....	.....	.....	24 45	.....	24 45
Chatham	4 00	.....	.....	.....	.....	.....	4 00
Clark avenue .....	.....	.....	5 75	.....	.....	.....	5 75
Crawford road .....	.....	.....	.....	.....	863 64	.....	863 64
Euelid avenue .....	.....	88 35	.....	.....	.....	.....	88 35
Fairmount .....	.....	15 00	.....	.....	.....	.....	15 00
Franklin avenue .....	.....	6 00	8 10	21 96	.....	.....	36 06
Frazer	27 20	.....	.....	.....	.....	.....	27 20
Jennings avenue .....	.....	.....	.....	29 37	.....	.....	29 37

TABLE NO. 2.—Continued.

Streets.	Gravel and Filling, Cost.	Asphalt paving repairs, Cost.	Flagging removed, Cost.	Flagging laid, Cost.	Repairs to Culverts, Cost.	Repairs to Sewers and Catch Basins, Cost.	Total.
Jersey.....	\$ 9 00	\$.....	\$.....	\$.....	\$.....	.....	\$ 9 00
Kennard.....	.....	12 14	.....	.....	.....	.....	12 14
Monroe.....	.....	.....	.....	.....	.....	5 25	5 25
Muirson.....	.....	.....	.....	.....	.....	17 89	17 89
Ontario.....	.....	4 00	.....	.....	.....	.....	4 00
Penn.....	6 00	.....	.....	.....	.....	.....	6 00
Petrie.....	.....	.....	.....	.....	110 00	.....	110 00
Prospect.....	.....	24 51	.....	.....	.....	.....	24 51
Public Square.....	.....	10 50	.....	.....	.....	.....	10 50
Rhodes avenue.....	.....	.....	.....	38 83	.....	.....	38 83
Seranton avenue.....	.....	.....	.....	.....	.....	18 62	18 62
Strybos.....	20 00	.....	.....	.....	.....	.....	20 00
Superior.....	72 75	73 65	.....	17 40	.....	.....	163 80
Tol.....	.....	.....	.....	.....	.....	12 00	12 00
Viaduct.....	28 70	10 50	.....	.....	.....	.....	38 20
Vincent.....	.....	8 70	.....	.....	.....	.....	8 70
Wellesley Court.....	.....	.....	.....	.....	41 30	.....	41 30

TABLE NO. 2.—*Concluded.*

Streets.	Gravel and Filling, Cost.	Asphalt paving repairs, Cost.	Flagging removed, Cost.	Flagging laid, Cost.	Repairs to Culverts, Cost.	Repairs to Sewers and Catch Basins, Cost.	Total.
Wilson avenue.....	\$.....	\$ 73 85	\$.....	\$.....	\$.....	\$.....	\$ 73 85
Woodland avenue.....	5 00						5 00
Woodland Hills avenue.....	6 00						6 00
York.....	14 65						14 65
Total.....	\$ 204 70	\$ 385 30	\$ 17 45	\$ 214 06	\$ 1,198 51	\$ 172 33	\$ 2,167 35

TABLE No. 3.

SHOWING COST AND REPAIRS OF STREET SWEEPING
MACHINES, ROAD MACHINES, CARRYALL WAGON
AND SPRINKLING CART FOR THE
YEAR AS PER BILLS.

Bills rendered by	
Warren Farr, 2 Street Sweepers.....	\$ 325 00
Warren Farr, Reed for Street Brooms.....	12 92
Chapman and O'Neil, 1 Street Sweeper (new).....	427 50
Chapman and O'Neil, 2 Gear Wheels for Sweepers.....	24 00
L. S. & M. S. R. R., freight on sweepers from New York.....	44 52
Ohio Brush Works, 9 Brooms for Sweepers.....	252 50
Ingram Brush Works, 2 Brooms for Sweepers.....	73 00
Lord, Bowler & Co., repairs to Sweepers.....	84 75
Peter Black, repairs to Sweepers.....	133 47
Adams, Jewett & Co., curtains for Sweepers.....	7 88
Wm. P. Haskill, painting Sweepers.....	26 00
Harrison & Many Lighting Co., Oil for Sweepers	13 48
Canfield Oil Co., Oil and Axle Grease.....	30 43
	————— \$ 1,455 45
Adam Schmidt, 1 Carryall Wagon	60 00
A. Hausman, repairs to Sprinkling Cart.....	12 70
W. P. Haskill, painting Sprinkling Cart.....	13 00
	————— 25 70
Fleming Manufacturing Co., 1 new Road Machine.....	150 00
Lawrence, Miller & Brightman, Knives and Castings.....	32 25
	————— \$ 182 25
	————— \$ 1,723 40

TABLE NO. 4.
HARDWARE, BLACKSMITHING, LUMBER, BRICK AND
CEMENT ACCOUNT.

Bills rendered by	Hardware, Nails, etc.	Blacksmith- ing, Sharp- ening Picks, etc.	Lumber.	Brick.	Sewer Sup- plies and Cement.	Total.
H. W. Lutkemeyer.....	\$123 23					
McIntosh, Good & Co.....	64 70					
A. T. VanTassell.....	29 83					
Rauch & Lang.....		\$96 33				
John Panek.....		47 90				
J. Hartman.....		119 45				
G. W. Wheeler.....		83 56				
Adam Schmidt.....		1 65				
Brennan & Eiber.....		4 25				
Benhoff Bros.....		75				
T. B. Cowley.....		5 50				
Woods, Jenks & Co.....			\$ 2,133 32			
Wm. Harrison.....				\$58 24		
F. Roehl.....				7 80		
Clements Bros.....					\$51 75	
Total	\$517 76	\$358 39	\$ 2,133 32	\$66 04	\$51 75	\$ 3,127 26

TABLE No. 5.
MISCELLANEOUS BILLS.

Bills rendered by	
East Cleveland R. R. Co., tickets.....	\$ 90 00
C. F. Lederer, salt.....	27 00
Pennsylvania R. R. Co., cars with slag.....	72 50
Valley R. R. Co., cars with slag.....	26 00
J. Seiberth, coal.....	11 06
A. C. Abrams, cash advanced for paint and varnish.....	3 45
F. Buettner, cash advanced for repairs to office chairs.....	1 50
J. Flynn, repairs to office chairs.....	1 25
A. T. Osborn, glue for office chairs.....	75
P. C. O'Brien, soap and brushes.....	5 61
M. Albl, supplies.....	12 18
Cleveland Directory Co., 1 copy.....	5 00
Cleveland Desk Co., 3 arm chairs.....	16 50
Cleveland Printing Co., 1 time book.....	11 76
Brooks & Co., stationery and circulars.....	16 90
Wm. Cohen, papering Street Commissioner's office.....	20 58
J. H. Breck, repairs to Brecksville road.....	30 38
Fulton Foundry Co., iron sewer covers.....	16 93
J. Brennan, iron crosswalk platforms.....	155 10
Cleveland Telephone Co., rent of telephone.....	20 00
Fire Department, care of telephone line.....	25 00
Fire Department, hose.....	94 75
E. W. Hull, hose and washers.....	161 10
G. Douttiel, dump signs.....	4 00
G. Smith, catch basin stones.....	46 25

\$ 875 54

TABLE No. 6.
SALARIES OF OFFICERS.

Street Commissioner.....	\$ 2,500 00
Assistant Street Commissioner	1,200 00
Clerk.....	900 00
Superintendent of paving repairs.....	1,086 75
Superintendent of catch basins.....	1,030 50
Superintendent of streets.....	5,267 50
Inspector of streets.....	2,846 24
Janitor and Yardman.	469 50
Messenger	353 75
	\$ 15,654 24

TABLE No. 7.
EXPENDITURES BY SOURCES OTHER THAN THE
STREET COMMISSIONER.

Dennice Novoreku, advertising.....	\$ 70 34
Plain Dealer Publishing Co.....	150 22
The Leader Printing Co.....	22 50
Waechter am Erie	85 42
Sidewalk tax refunded.....	2,180 06
P. Platten, flagging.....	1,715 31
W. J. Lindsey, lumber for Canal street.....	57 97
L. F. Beers, East Madison culvert.....	383 29
Inspector East Madison culvert.....	27 50
Claffen Paving Co., gutter stone	557 94
Error in credit, general fund.....	12 75
Error in credit, bridge fund ...	6 50
\$ 5,269 79	

TABLE NO. 8.

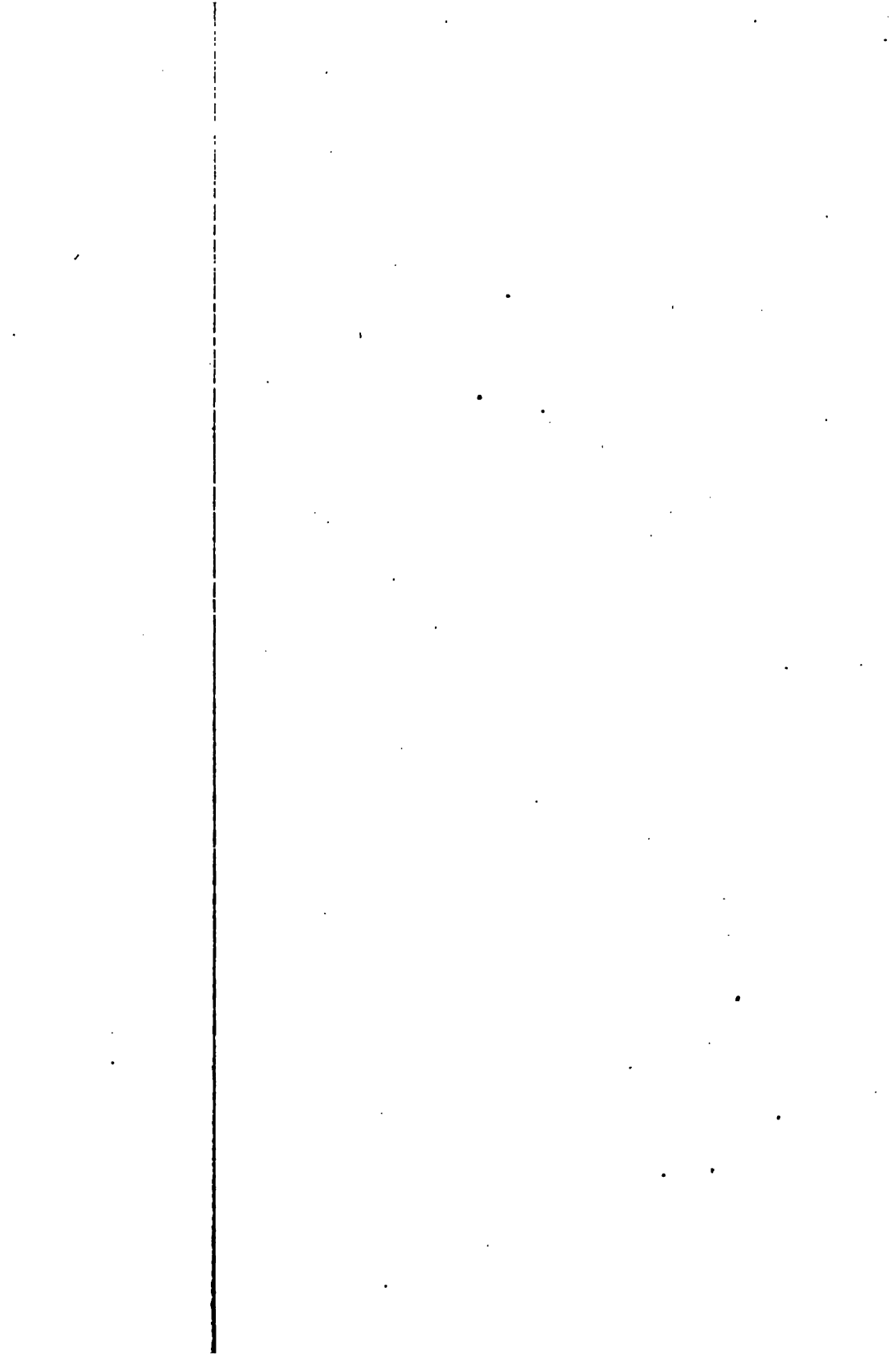
EXPENDITURES FOR SEWER AND CATCH BASIN RE-
PAIRS AND THE CLEANING OF NEWBURGH
MARKET HOUSE.

Bills rendered through this Department, although paid from
Sewer Districts and Market Fund.

Streets.	Sewers.	Catch Basins.	Cleaning Market.
Arlington court.....	\$ 29 00		
Bank	54 12		
Birch	12 00		
Bolivar	53 69		
Bolton avenue.....	9 50		
Bridge.....	37 90		
Bright.....	29 30		
Broadway.....	30 60		
Canal.....	6 00		
Case avenue.....	41 10		
Cedar avenue.....	34 50		
Clark avenue		\$ 68 35	
Davenport.....	11 50		
Detroit	23 50		
Dodge	122 20		
Eagle.....	14 00		
Erie	22 09		
Euclid avenue.....	27 85		
Fifth avenue.....	29 30		
Forest	18 00		
Fountain	10 00		
Frankfort.....	9 50		
Garden	15 00		
Hamilton.....	42 00		
Harper	10 00		
Heyward.....	18 20		
Huntington	12 50		
Kentucky.....	9 50		

TABLE NO. 8.—*Continued.*

Streets.	Sewers.	Catch Basins.	Cleaning Market.
Lake	\$ 69 62		
Long	104 49		
Lorain.....		\$ 61 00	
Main.....	14 40		
Marion	11 50		
Mason	17 50		
Meadow	14 20		
Merwin.....	39 76		
Muirson.....	32 00		
Noble.....	39 48		
Old River.....	13 60		
Ontario	28 40		
Orange.....	15 50		
Oregon	11 50		
Osborne	9 50		
Payne	176 50		
Prospect.....	82 63	78 95	
Putnam	9 50		
River	65 50		
Rockwell	15 40		
Scovill avenue.....	48 98		
Seneca.....	12 63		
Sibley	69 50		
South Water.....		78 65	
Spruce.....	15 50		
St. Clair.....	15 25		
Sterling.....	11 25		
Superior.....	190 45		
Webster.....	45 80		
Wilson	22 50		
Wood	5 00		
18th ward market house, cleaning.			\$ 100 00
Totals.....	\$ 1,940 69	\$ 286 95	\$ 100 00
Grand total.....			\$ 2,327 64



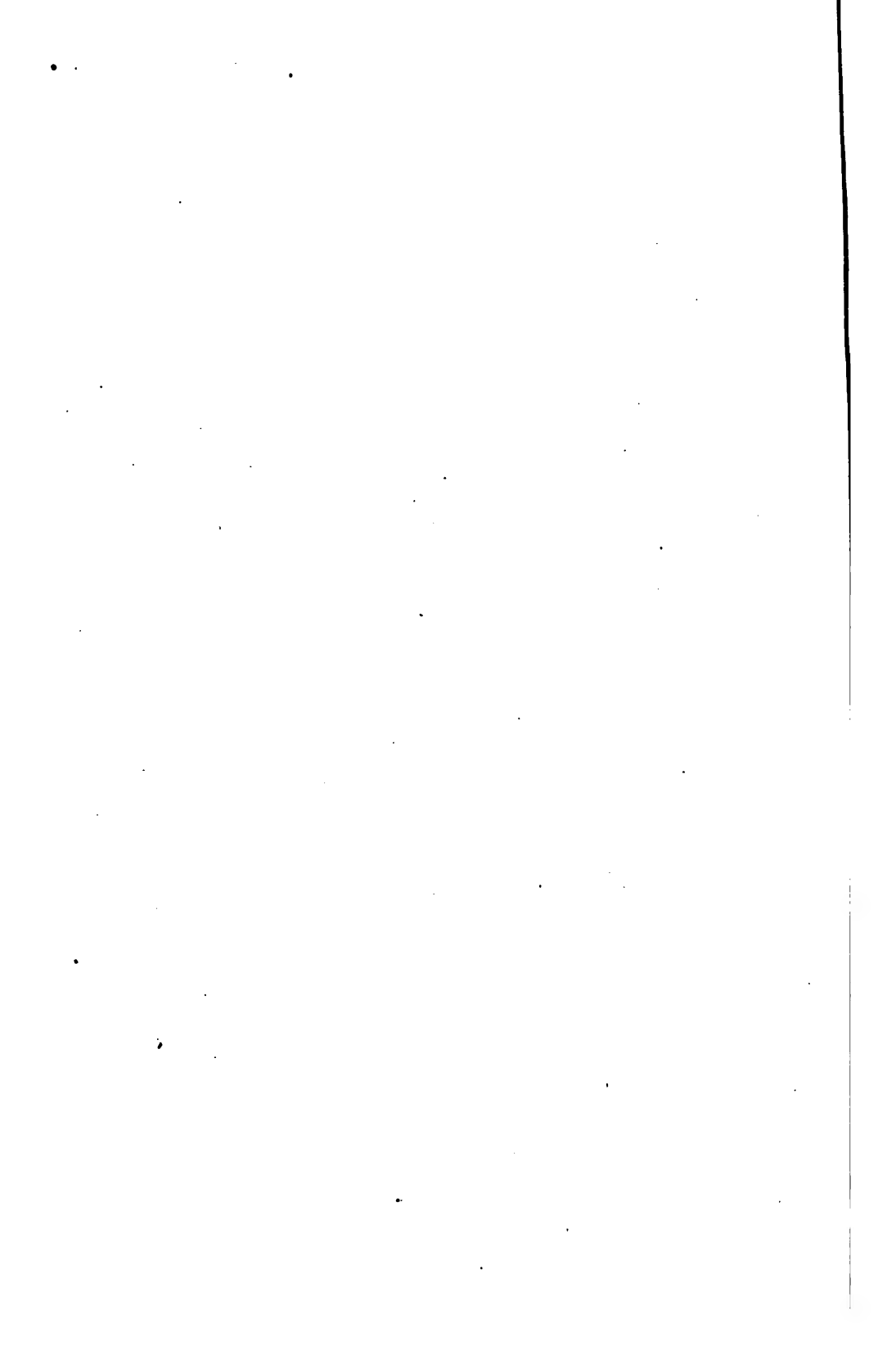


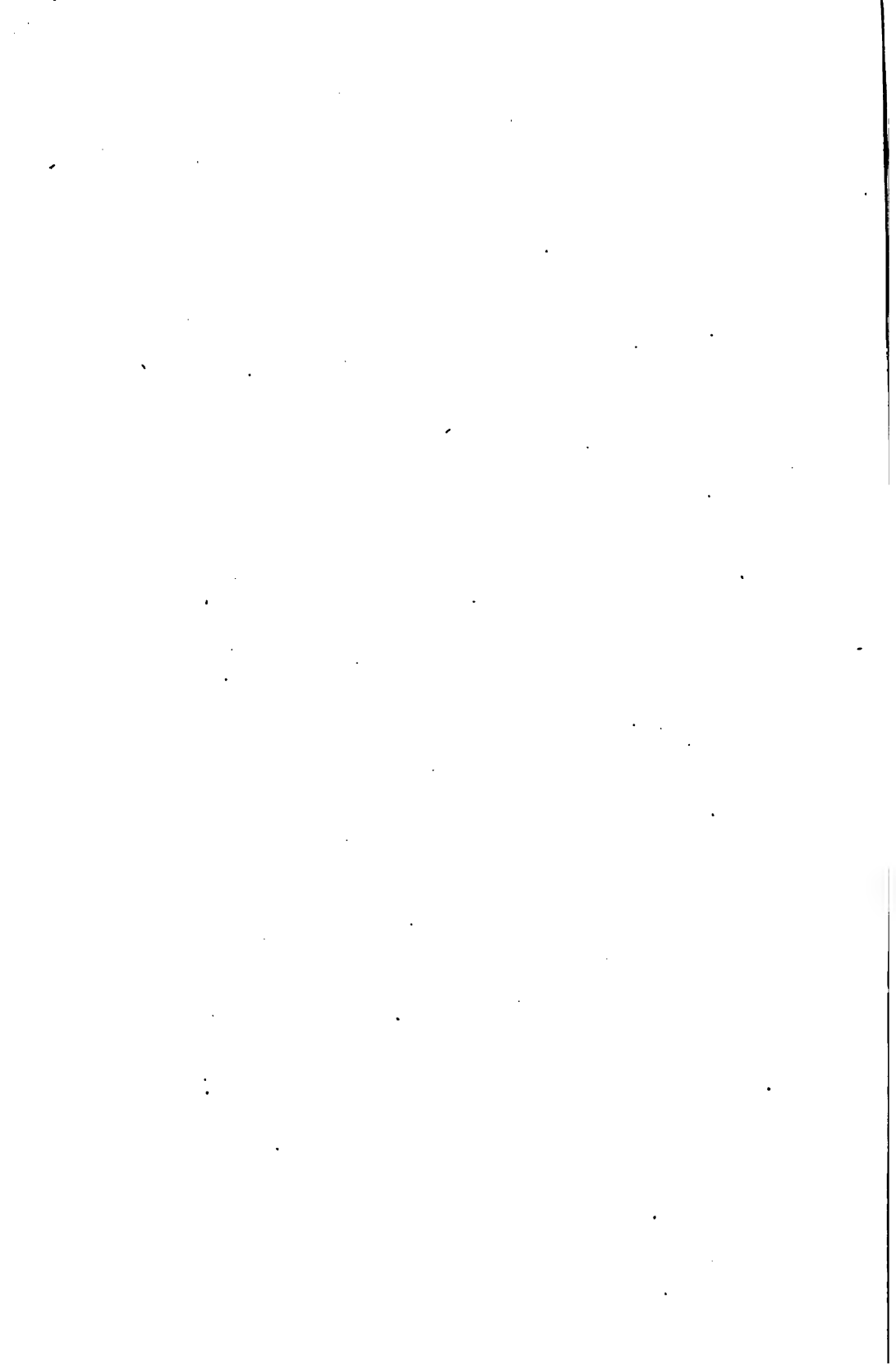
TABLE NO. 10.

INVENTORY.

Augers.....	2
Axle grease (gallons).....	15
Badges	7
Blackboard ...	1
Brick	200
Brooms (street).....	58
Brooms (machine).....	2
Carryall	1
Carpet	1
Coal scuttles.....	5
Chain-rod (50 feet).....	1
Chairs.....	12
Chisels.....	16
Clock	1
Crowbars	15
Couplings (brass).....	20
Copying press and book.....	1
Desks (office).....	6
Directory	1
Dusters.....	4
File.....	1
Grindstones.....	2
Grubs.....	2
Hammers (hand).....	3
Hammers (stone).....	8
Hatchets.....	6
Hose (sections).....	16
Hoos	103
Ice bars.....	2
Ice hooks.....	12
Iron crosswalks.....	69
Ink stands.....	6
Lanterns.....	18

Lantern wick.....	1
Lamp.....	1
Lines (gutter).....	3
Mauls.....	2
Mattocks.....	4
Mats.....	2
Manhole covers.....	12
Map.....	1
Mirror.....	1
Monkey wrenches.....	2
Mops.....	2
Nails (pounds).....	300
Nippers.....	1
Nozzle (brass).....	1
Oil cans.....	6
Oil (machine) (gallons).....	20
Pails.....	6
Padlocks.....	6
Picks.....	52
Plows.....	4
Pounders.....	2
Rakes.....	18
Road Machines.....	3
Rules.....	2
Saws (hand).....	7
Salt (barrels).....	2
Screw-driver.....	1
Sieve.....	1
Shovels.....	27
Sledge hammer.....	1
Snow plows.....	4
Sprinkling wagon.....	1
Sprinkling cans.....	2
Squares.....	2
Stone crosswalk stone (feet).....	1,500
Stone (paving) corde.....	150
Stoves.....	2
Street sweeping machines.....	5
Tamping bars.....	2
Towels.....	6

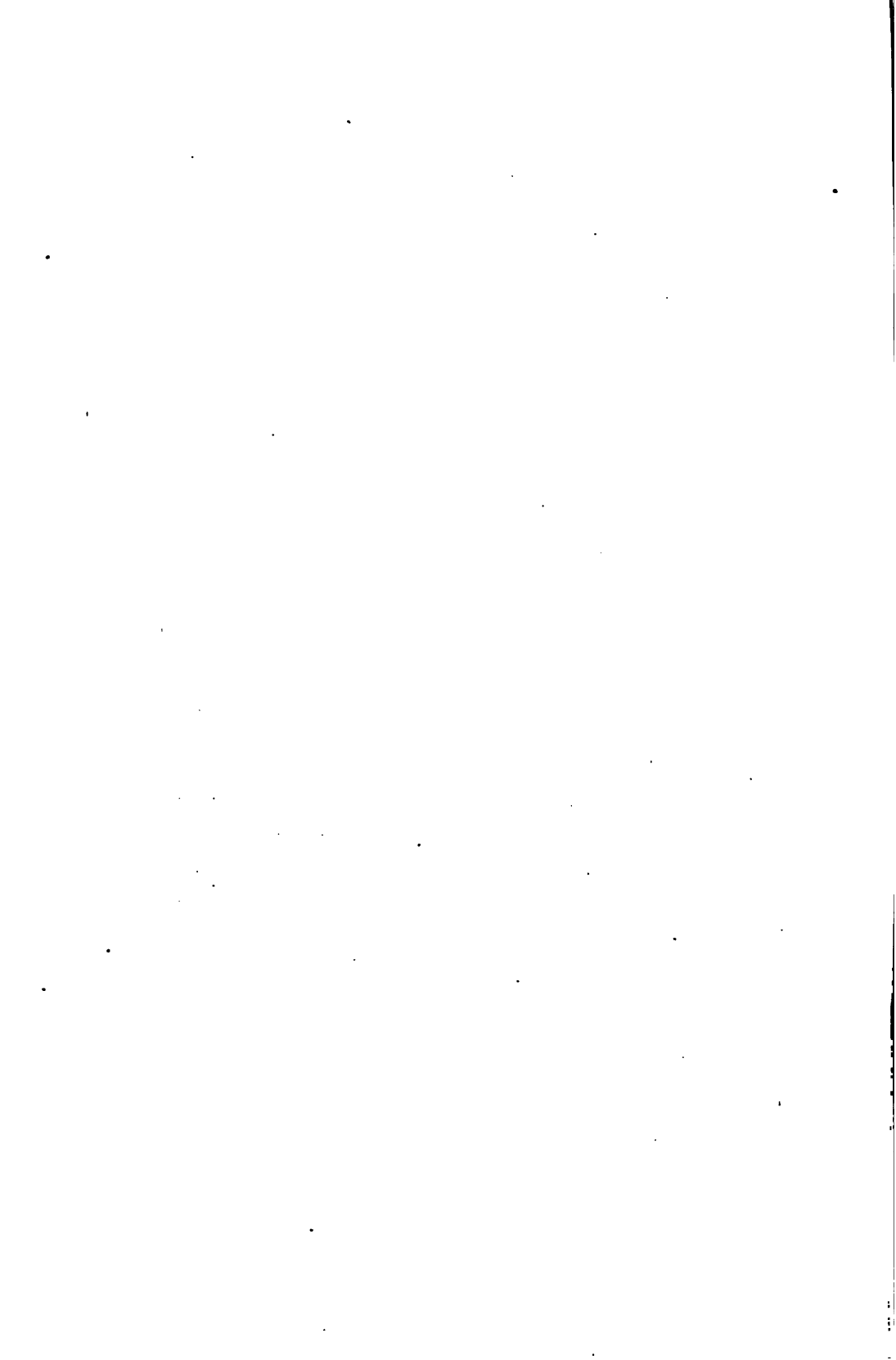
Trowel.....	1
Vises.....	2
Water works key.....	1
Waste baskets.....	2
Wheel-barrows.....	2
Wrenches (hose).....	4



City Auditor's Report.

AUDITOR'S DEPARTMENT.

JAY L. ATHEY,	-	-	-	-	-	City Auditor.
CHAS. H. CARRAN,	-	-	-	-	-	Deputy Auditor.
CLARA WHEELER,	-	-	-	-	-	Assistant in Pay Department.
E. H. RUSSELL,	-	-	-	-	-	Book-keeper.
P. J. WAGNER,	-	-	-	-	-	Book-keeper.
FREDERICK GREEN,	-	-	-	-	-	Chief of Tax Department.
GEO. F. DALEY,	-	-	-	-	-	Assistant in Tax Department.
VICTORIA A. SMITH,	-	-	-	-	-	Assistant in Tax Department.
MARY REILLY,	-	-	-	-	-	Assistant in Tax Department.
J. P. BARRY,	-	-	-	-	-	Messenger.



Report of the City Auditor.

CLEVELAND, O., January 26, 1889.

To the Honorable Common Council:

GENTLEMEN:—In accordance with law, I herewith submit the annual statement of the accounts and finances of the City of Cleveland for the year 1888, embraced in tables numbered from one to eighteen inclusive, and showing as follows:

TABLE NO. 1.—A general exhibit of resources and disbursements in 1889.

TABLE NO. 2.—Analysis of resources of each general fund for 1888.

TABLE NO. 3.—A comparison of ordinary expenses paid from the following funds for 1887 and 1888.

TABLE NO. 4.—The condition of each fund and account January 1st, 1889.

TABLE NO. 5.—The municipal levy for each general fund in the tax of 1888, and comparison with that of 1887.

TABLE NO. 6.—Amount and proceeds of all bonds issued in 1888.

TABLE NO. 7.—Amount and maturity of general bonds outstanding January 1, 1889.

TABLE NO. 8.—Amount and maturity of street improvement bonds outstanding January 1, 1889.

TABLE NO. 9.—Amount and maturity of street damage bonds outstanding January 1, 1889.

TABLE NO. 10.—Amount and maturity of sewer bonds outstanding January 1, 1889.

TABLE NO. 11.—Recapitulation of bonds outstanding January 1, 1889.

TABLE NO. 12.—Comparison of city debt of all kinds January 1, 1888, and January 1, 1889.

TABLE NO. 13.—Principal and interest of bonds maturing in each month of 1889.

TABLE NO. 14.—A comparative showing of items included for eighteen years—1871 to 1888 inclusive.

TABLE NO. 15.—Amounts levied in the tax of 1888 upon sewer districts.

TABLE NO. 16.—Lists of assessments prepared by the City Auditor's department and levied in the tax of 1888.

TABLE NO. 17.—Amount of taxes levied in each main sewer district.

TABLE NO. 18.—Results in 1888.

Tabular Exhibit.

TABLE NO. 1.

A GENERAL EXHIBIT OF THE RESOURCES AND DIS-
BURSEMENTS FOR THE YEAR 1888, IN ACCOUNT
WITH THE CITY TREASURER.

RESOURCES.		
Cash on hand January 1, 1888		\$ 235,418 67
Taxes.....	\$2,076,084 89	
Sale of bonds.....	415,018 72	
City notes.....	74,000 00	
From Sinking Fund of 1862, for repaving streets	51,681 58	
From Sinking Fund Commissioners, from General Sinking Fund..	219,000 00	
Dow Law Tax	229,778 81	
From Sinking Fund Commissioners, for Seneca street bridge.....	38,777 14	
Receipts other than above:		
To Bridge	132 59	
" Cemetery Fund.....	30,431 58	
" Fire Department.....	1,631 12	
" General Fund.....	32,512 95	
" House of Correction	107,083 55	
" Hospital Fund.....	1,079 00	
" Infirmary Fund.....	23,363 02	
" Lighting Fund.....	1,915 37	
" Market Fund	18,059 25	
" Police Court Fund.....	19,965 26	
" Police Department.....	169 37	
" Park Fund.....	335 09	
" Street intersections.....	466 47	
" Street Department.....	14,782 48	
" Sanitary Fund.....	4,157 26	
Viaduct and Canal Sinking Fund.....	1,686 25	
Water Works Fund.....	438,607 58	
Miscellaneous accounts.....	31,994 44	
Income for the year 1888.....		3,837,613 77
Total resources for the year 1888.....		4,073,062 44

TABLE NO. 1.—*Continued.*

DISBURSEMENTS.		
Ordinary running expenses, including Water Works	\$ 1,275,590 38	
General bonded debt.....	219,000 00	
Interest on general debt.....	467,060 00	
Special bonded debt.....	117,800 00	
Interest on special debt.....	22,554 00	
City notes.....	6,670 00	
Interest on same.....	249 89	
Elevated roadway.....	231,820 34	
Pearl street bridge.....	21,236 77	
Kingsbury bridge	4,769 93	
Taxes refunded.....	29,352 54	
Commission Am. Ex. Nat. Bank.....	1,228 65	
Special improvements and miscellaneous accounts.....	378,741 82	
Paid to Sinking Fund Commissioners for investment.....	287,933 31	
Permanent Improvements (Table No. 2).		
Infirmary Fund.....	33,752 27	
Water Works Fund.....	354,730 65	
Repaving streets.....	148,834 32	
Total expenditures.....		3,596,424 85
City Treasury:—		
Dr. to cash January 1, 1889		476,637 59
Total.....		4,073,062 44

TABLE No. 2.
ANALYSIS OF RESOURCES AND DISBURSEMENTS OF
THE MUNICIPAL FUNDS OF THE CITY OF
CLEVELAND FOR THE YEAR 1888.

BRIDGE FUND.		
RESOURCES.		
City tax levy.....	\$ 9,482 71	
County tax levy	23,648 98	
Market Fund.....	3,000 00	
Suspended Account Fund.....	13,276 24	
Miscellaneous receipts.....	132 59	
Portion of the tax levy of 1888.....	8,000 00	\$ 57,540 52
DISBURSEMENTS.		
Overdrawn January 1, 1888	9,513 31	
Ordinary expenses.....	43,046 90	52,560 21
Cash on hand January 1, 1889.....		4,990 31
CEMETERY FUND.		
RESOURCES.		
W. H. Brown, Treasurer, October 3, 1888	\$ 25,720 16	
Burials; sale of lots, etc.....	4,711 42	\$ 30,431 58
DISBURSEMENTS.		
Ordinary expenses.....	5,709 28	5,709 28
Cash on hand January 1, 1889.....		24,722 30

TABLE NO. 2.—*Continued.*

DREDGING FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 9,282 27	
City tax levy.....	9,482 71	
Special tax levy.....	12,788 17	
Portion of tax of 1888.....	1,000 00	
Warrant credited back.....	2 48	\$ 32,555 63
DISBURSEMENTS.		
Ordinary expenses.....	23,724 99	23,724 99
Cash on hand January 1, 1889.....		8,830 64

FIRE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 2,079 91	
City tax levy	232,326 32	✓
Market Fund.....	5,000 00	
A. J. Spencer, Secretary.....	1,629 12	
Suspended account fund.....	16,291 58	
Portion of tax levy of 1888.....	30,000 00	
Warrant credited back.....	2 00	\$ 287,328 93
DISBURSEMENTS.		
Ordinary expenses.....	233,493 64	233,493 64
Cash on hand January 1, 1889.....		53,835 29

TABLE NO. 2.—*Continued.*

GENERAL FUND.		
RESOURCES.		
City tax levy	\$ 42,672 18	
City Hall rents	11,254 86	
Hay scales, licenses, cow pounds, etc.....	31,009 66	
Reimbursements from special accounts.....	5,786 34	
Amount retained on Justice of Peace pay rolls	1,344 00	
Dow Law Tax	86,167 05	
Warrants credited back.....	59 29	
Sinking Fund Commissioners.....	25,000 00	
Portion of tax levy of 1888.....	45,000 00	
Suspended account fund.....	50,296 84	\$ 298,590 02
DISBURSEMENTS.		
Overdrawn January 1, 1888	16,564 83	
Damages and costs in case of E. F. McInnes	11,063 54	
Costs of court and damages.....	3,336 58	
Bonds paid	25,000 00	
Ordinary expenses.....	174,784 40	230,749 35
Cash on hand January 1, 1889.....		67,840 67
HOUSE OF CORRECTION.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 5,167 80	
From W. D. Patterson, Superintendent.....	95,436 80	
From County Treasurer for Board of County prisoners.....	11,596 75	
City tax levy	14,224 06	
Portion of the tax levy of 1888.....	1,500 00	\$ 127,925 41
DISBURSEMENTS.		
Ordinary expenses.....	119,116 53	119,116 53
Cash on hand January 1, 1889.....		8,808 88

TABLE NO. 2.—*Continued.*

HOSPITAL FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 409 51	
City tax levy	2,370 68	
From C. P. Salen, City Clerk	1,030 00	
Portion of tax levy of 1888.....	500 00	
Warrants credited back.....	49 00	\$ 4,359 19
DISBURSEMENTS.		
Ordinary expenses	3,090 99	3,090 99
Cash on hand January 1, 1889.....		1,268 20
INFIRMARY FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 44,884 43	
From County Treasurer for Board of County paupers.....	13,934 56	
From L. S. O'Neil, Clerk of Infirmary Board.....	7,966 59	
From C. P. Salen, City Clerk	6,418 00	
Dow Law Tax	57,444 71	
From Sinking Fund Commissioners.....	40,000 00	
Warrants credited back.....	43 87	\$ 170,692 16
DISBURSEMENTS.		
Ordinary expenses.....	90,643 11	
Permanent improvements.....	33,752 27	
Bonds paid	40,000 00	164,395 38
Cash on hand January 1, 1889.....		6,296 78

TABLE NO. 2.—*Continued.*

INTEREST FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 27,309 61	
City tax levy	456,169 94	
Accrued interest and premium on City bonds.....	19,874 08	
Portion of tax levy of 1888.....	53,500 00	\$ 555,853 63
DISBURSEMENTS.		
Interest on general bonded debt	467,060 00	467,060 00
Cash on hand January 1, 1889.....		88,793 63
LIGHTING FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 16,489 96	
City tax levy	142,240 61	
Dog tax.....	1,884 60	
Miscellaneous receipts.....	30 77	
Portion of tax levy of 1888.....	18,000 00	\$ 178,645 94
DISBURSEMENTS.		
For electric light.....	16,005 73	
" gas	93,238 20	
" vapor	40,732 96	
" lanterns, glass, lamp posts and repairs	9,802 78	159,779 67
Cash on hand January 1, 1889.....		18,866 27

TABLE NO. 2.—Continued.

MARKET FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 10,189 78	
Proceeds of sale of wholesale meat curbs.....	948 75	
Market rents.....	16,966 00	
Payment for transfer of space.....	78 00	
Miscellaneous receipts.....	66 50	\$ 28,249 03
DISBURSEMENTS.		
Ordinary expenses.....	12,911 30	
Transfer to Fire Department.....	5,000 00	
" Police Court Fund.....	5,000 00	
" Sewer District No. 4.....	1,572 00	
" Willow street Bridge Fund.....	500 00	
" Bridge Fund.....	3,000 00	27,983 30
Cash on hand January 1, 1889.....		265 73
POLICE COURT.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 1,079 97	
From Robt. M. Cordes, Police Clerk.....	15,815 42	
" W. D. Patterson, Superintendent House of Correction.....	370 20	
" Market Fund.....	5,000 00	
" C. P. Salen, City Clerk.....	3,767 20	
Warrants credited back.....	12 44	\$ 26,015 23
DISBURSEMENTS.		
Ordinary expenses.....	14,089 19	14,089 19
Cash on hand January 1, 1889.....		11,856 04

TABLE NO. 2.—*Continued.*

POLICE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 985 72	
City tax levy	165,947 36	
From Dow Tax	86,167 05	
Suspended Account Fund	19,832 35	
Portion of tax levy of 1888.....	20,000 00	
John Vanek, Secretary.....	169 37	\$ 293,101 85
DISBURSEMENTS.		
Ordinary expenses.....	252,127 95	252,127 95
Cash on hand January 1, 1889.....		40,973 90
PARK.		
RESOURCES.		
City tax levy.....	\$ 23,706 76	
From Sinking Fund Commissioners.....	7,000 00	
Suspended Account Fund.....	3,063 35	
Portion of tax levy of 1888.....	3,000 00	
W. H. Eckman, Secretary.....	48 50	
A. H. Stone, for use of boats in Wade Park.....	230 49	
Warrants credited back.....	56 10	\$ 37,106 20
DISBURSEMENTS.		
Overdrawn January 1, 1888	1,442 59	
Ordinary expenses.....	25,573 45	
Wade Park Bonds	7,000 00	34,016 04
Cash on hand January 1, 1889.....		3,089 16

TABLE NO. 2.—*Continued.*

STREET INTERSECTION FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 6,042 28	
City tax levy.....	28,448 12	
From Brooklyn Street Railway Co.....	466 67	
Portion of tax levy of 1898.....	4,000 00	\$ 38,956 87
DISBURSEMENTS.		
Maple street curbing.....	99 54	
Canfield street grading.....	673 68	
Sawtell avenue grading.....	31 94	
Conrad street grading.....	12 01	
Purdy street grading.....	7 50	
Lawn street grading.....	35 00	
Portage street grading.....	2 58	
House street grading.....	2 03	
Hamburg street grading.....	8 13	
New street grading.....	2 48	
Parkman lane grading.....	3 60	
Kentucky street paving.....	1,023 26	
Vincent street paving.....	401 70	
Southern avenue curbing.....	171 42	
Iona street cindering.....	37 00	
Abbey street paving.....	4,319 79	
Ohio street paving.....	2,565 49	
Lexington avenue grading.....	340 65	
Perkins avenue grading.....	109 50	
Sibley street grading.....	231 14	
Vienna street grading.....	47 21	
Hamilton street grading.....	100 43	
Taylor street grading.....	56 87	
Petrie street grading.....	173 77	
Cornell street grading.....	43 02	
Case avenue paving.....	1,000 00	
Corwin avenue paving.....	38 11	
St. Clair street grading, East Madison to Becker.....	855 02	
Forward.....		

TABLE NO. 2.—*Continued.*

STREET INTERSECTION FUND.— <i>Continued.</i>		
DISBURSEMENTS.— <i>Continued.</i>		
<i>Forward</i>		
Franklin avenue paving, Waverly to Gordon.....	1,187 04	
Streator avenue grading.....	70 86	
Hayward street paving, Prospect to Cedar.....	657 73	
Sibley street paving.....	140 28	
Kennard street paving.....	82 51	
Sykora street grading.....	54 31	
Lodge avenue grading.....	2 05	
Prime street grading.....	5 99	
South Bell avenue grading.....	11 05	
Norwood street grading, Superior to Luther.....	168 65	
Taylor street grading.....	67 69	
Oregon street grading.....	27 38	
Lincoln avenue grading.....	217 09	
Tilden avenue grading.....	102 23	
Reservoir street grading.....	1 76	
Miami alley paving.....	180 42	
W. H. Rose, Inspector.....	9 00	
		\$ 15,376 91
Cash on hand January 1, 1889.....		\$ 23,579 96

TABLE NO. 2.—*Continued.*

STREET DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 85 58	
City tax levy.....	92,456 39	
Plumbers' permits, street repairs, etc.....	12,542 48	
Sidewalk taxes.....	932 87	
Street car licenses.....	2,240 00	
Suspended account fund.....	5,702 55	
Portion of tax levy of 1888.....	13,000 00	\$ 127,009 87
DISBURSEMENTS.		
Ordinary expenses.....	102,889 90	
Sidewalk taxes refunded.....	2,180 05	105,069 95
Cash on hand January 1, 1889.....		\$ 21,939 92

TABLE NO. 2.—*Continued.*

SANITARY FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 7,371 66	
City tax levy.....	28,448 12	
From W. E. Craig, Secretary	4,114 07	
Portion of the tax levy of 1888.....	2,500 00	
Miscellaneous receipts.....	43 19	\$ 42,477 04
DISBURSEMENTS.		
Ordinary expenses.....	28,103 47	28,103 47
Cash on hand January 1, 1889.....		\$ 14,373 57

TABLE NO. 2.—*Continued.*

SINKING FUND (For General Bonds.)		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 883 62	
City tax levy	237,067 67	
Earnings for the year as per Sinking Fund Commissioner's report..	1,512 23	
Miscellaneous receipts.....	2,456 61	\$ 241,920 13
DISBURSEMENTS.		
Funded debt Bonds	112,000 00	
School "F" Bonds	35,000 00	
Wade Park Bonds	7,000 00	
General Fund Bonds.....	25,000 00	
Infirmiry Bonds.....	40,000 00	219,000 00
Cash on hand January 1, 1889.....		\$ 22,920 13

TABLE NO. 2.—*Continued.*

WATER WORKS FUND.		
RESOURCES.		
Cash on hand January 1, 1888.....	\$ 81,448 47	
Water rents.....	438,807 58	\$ 520,056 05
DISBURSEMENTS.		
Ordinary expenses.....	89,395 49	
Permanent improvements.....	354,730 65	444,126 14
Cash on hand January 1, 1889.....		\$ 75,929 91

TABLE NO. 3.

COMPARISON OF ORDINARY EXPENSES PAID FROM THE
FOLLOWING FUNDS IN 1887 AND 1888, MAKING
ALLOWANCE FOR BILLS CARRIED
OVER IN BOTH YEARS.

FUND.	1887.	1888.	Increase.	Decrease.
Bridge	\$ 46,218 13	\$ 43,046 80		\$ 3,171 23
Dredging.....	15,710 17	23,724 99	8,014 82	
Fire Department.....	217,067 45	233,498 64	16,426 19	
General	165,285 72	174,784 40	9,498 68	
House of Correction	121,259 37	119,116 53		2,142 84
Infirmary	79,786 18	90,643 11	10,856 93	
Lighting	126,733 39	159,779 67	33,041 28	
Market	13,146 82	12,911 30		235 52
Park	25,100 30	25,573 45	473 15	
Police Department.....	238,159 01	252,127 95	13,968 94	
Police Court.....	19,919 37	14,089 19		5,830 18
Sanitary	23,687 24	28,103 47	4,416 23	
Street Department.....	101,740 20	102,889 90	1,149 70	
Water Works.....	88,945 89	89,395 49	449 60	
Totals.	1,282,764 24	1,369,679 99	86,915 75	11,379 77
Balancing		1,282,764 24	11,379 77	
Net income in 1888.....		86,915 75	86,915 75	

TABLE NO. 4.
STATEMENT OF THE CONDITION OF VARIOUS FUNDS
OF THE CITY OF CLEVELAND, JANUARY 1, 1889.

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
Atlantic St. grade.	\$ 1,000 00	\$.....	\$ 14 41
Armory.....			245 79
Academy St. grade.....		461 58	
Allen St. opening.....			759 57
Armitage St. damages.....			16 36
Anson St. grade.....			89 38
Alum St. grade.....			19 67
Abbey St. grade.....	4,000 00	2,907 40	
Bond St. repave.....		399 70	
Bond St. opening.....			2,408 06
Becker Ave. widening.....			333 18
Birch St. grade.....			
Broadway, paving, Ohio to Independence.....	7,000 00	1,024 16	
Broadway, paving, Independence to Union.....	19,000 00	1,364 44	
Broadway, paving, Union to Miles.....	110,000 00	623 95	
Broadway, repaving 900 ft. S. of Independence to Mead.....			336 97
Beckwith St. improvement.....		1,042 13	
Bridge.....		9,513 31	
Burwell St. grade.....			288 74
Broadway sewer.....			
Bank St. repaving.....			338 12
Bolton Ave. sewer.....			
Broadway, paving, Miles to Woodland Hills Ave.....		104 96	
Brooker Ave. grading ...			140 38
Brayton St. grading.....		54 35	
Branch St. grading.....			58 12
Broadway, repaving, Union to Mead.....			
Belmont St. curbing.....			
Brookfield St. grade.....			
<i>Forward</i>			

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$ 50 00	\$.....	\$.....	\$ 35 59	\$.....	\$ 2,000 53
224 42	.....	.....	.....	21 37	.....
.....	.....	.....	461 58	.....	484 61
759 57	.....	.....	.....	.....	.....
16 36	.....	.....	.....	.....	.....
89 38	.....	.....	.....	.....	.....
19 67	.....	.....	.....	.....	.....
5,490 43	8,338 85	.....	38 98	.....	449 04
4 05	.....	.....	403 75	.....	.....
37 79	.....	.....	.....	2,370 26	.....
333 18	.....	.....	.....	.....	.....
794 10	802 70	.....	.....	8 60	18 59
300 00	1,400 00	.....	.....	75 84	.....
1,289 13	2,784 53	.....	.....	130 96	18,779 52
4,460 00	5,200 00	8,415 14	.....	116 03	115,526 28
1,799 79	1,205 23	.....	257 59	.....	34 17
.....	.....	.....	1,042 13	.....	1,012 65
43 046 90	57,540 52	.....	.....	4,980 31	.....
288 74	.....	.....	.....	.....	.....
110 61	5,419 97	.....	.....	5,309 36	1,097 37
469 04	130 92	.....	.....	.....	.....
4,140 70	4,140 70	.....	.....	.....	.....
.....	.....	.....	104 96	.....	.....
162 06	15 85	.....	5 83	.....	7 90
3 90	.....	.....	58 25	.....	.....
58 12	.....	.....	.....	.....	.....
44,363 13	47,895 80	.....	.....	3,532 67	347 05
420 78	582 15	.....	.....	161 37	.....
744 41	2,691 00	.....	.....	1,946 59	81 51
.....					

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Birch St. sewer			
Central Place opening.....		12,265 65	
Canton St. grade.....			110 95
Courtland St. sewer.....			
Commercial St. sewer district.....			455 99
Cedar Ave. grade, Perry to Wilson.....			247 05
Cedar Ave. paving, Perry to Wilson			
Cornell St. grade.....		28 01	
Colfax St. grade			20 53
Canal Fund.....	275,000 00		
Coleman Alley damages.....			59 23
Clark Ave. damages.....			186 80
Cedar Ave. sewer, Wilson to Madison.....		11,085 65	
Croton St. sewer, Jackson to Mayflower.....		76 85	
Croton St. sewer, Forest to Mayflower.....		345 43	
Croton St. sewer, Forest to Case.....			487 24
Colgate St. grade			206 78
Canton St. damages.....			95 32
Conrad St. grade.....		37 73	
Canfield St. grade.		557 11	
Church St. grading.....			318 42
Chatham St. sewer.....			
Case Ave. paving, Payne to L. S. & M. S.....	31,500 00		
Corwin Ave. paving.....			
Cemetery			
Dibble Ave. grading			
Davies St. paving.....	4,000 00		5,600 53
<i>Forward</i>			

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
167 87	167 87				
13 18			12,278 83		
110 95					
14,657 10	15,071 20			414 10	123 50
156 67	14 85			314 17	
247 05					
187 00	187 00				
185 73	139 73		74 01		
169 91	149 38				
368 07	321 60			12 76	
3,541 66	4,362 35			1,007 49	466 75
1,892 75	7,128 37		5,850 03		75 84
7 70	61 30		23 25		
7 70	338 50		14 63		
462 25	20 00			44 99	
206 78					
271 29	212 50			36 53	
28 09	12 01		53 81		
206 68	673 68		89 11		
318 42					
350 60	350 60				
39,865 97	40,078 63			212 66	65 56
273 71	273 71				
5,709 28	30,431 58			24,722 30	
226 29	331 00			104 71	
10,729 44	5,127 78		1 13		482 83

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Duane St. grade			144 70
Dayton St. sewer			
Dodge St. grade			20 10
Dolloff St. grade			174 63
Dredging			9,282 27
Doan St. sewer			
Erie St. repaving			213 14
Ellsworth St. grade			26 94
Elton St. grade		57 73	
Euclid Ave. repave, Perry to Case			546 43
Euclid Ave. repave, Case to Wilson			197 73
Euclid Ave. paving, west of Erie	12,000 00		172 91
Euclid Ave. repaving, Wilson to Fairmount		175 34	
Edward St. grade			145 22
East River St. repaving		14 32	
Edward St. curbing			252 36
Euclid Ave. repave, Fairmount to City Limits		5,172 92	
Elevated Roadway	834,000 00		28 011 15
Euclid Ave. damages and regrading, Fairmount to C. L.			288 83
East Madison Ave. sewer. Euclid to Woodland	21,000 00		
East Madison Ave. sewer, Lena to Lake Erie			
Fire Department			2,079 91
Funded debt bond account	2,005,000 00		
Fairmount St. macadamizing		20 00	
Fairmount St. repave, Euclid to Baldwin	11,000 00	588 71	
Fairmount St. plankng.		1,391 12	
Francis St. grade			160 62
<i>Forward</i>			

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
167 97	23 27	.....	.....	.....	.....
427 85	427 85	.....	.....	.....	.....
3 50	.....	.....	.....	16 60	.....
250 83	76 20	.....	.....	.....	.....
23,724 99	23,273 36	.....	.....	8,330 64	.....
.....	75 00	.....	.....	75 00	.....
213 14	.....	.....	.....	.....	.....
26 94	.....	.....	.....	.....	.....
7 85	.....	.....	65 58	.....	.....
637 42	90 99	.....	.....	.....	.....
875 61	737 78	.....	.....	79 90	.....
600 00	500 00	.....	.....	72 91	.....
.....	.....	.....	175 34	.....	786 85
145 22	.....	.....	.....	.....	.....
.....	.....	.....	14 32	.....	.....
252 36	.....	.....	.....	.....	.....
19,158 09	21,277 97	.....	3,053 04	.....	2,817 20
231,820 34	224,000 00	.....	.....	20,190 81	.....
288 83	.....	.....	.....	.....	.....
60,328 27	85,358 83	.....	.....	25,030 56	147 71
5,957 94	8,000 00	.....	.....	2,042 06	50 39
233,493 64	285,249 02	.....	.....	53,835 29	.....
.....					
.....	.....	.....	20 00	.....	.....
9,122 30	9,562 50	.....	148 51	.....	1,277 64
364 04	344 00	.....	1,411 16	.....	.....
160 62	.....	.....	.....	.....	.....
.....					
.....					

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Franklin Ave. repave, Pearl to Circle.....		2,103 55	
Franklin Ave. paving, Waverly to Gordon.....			5,085 57
Franklin Ave. repave, Circle to Waverly			8,942 56
Florence St. sewer.....			
Florence St. grade.....			
General.....	75,000 00	16,564 83	
Garden St. paving, Brownell to Wilson.....			338 77
Giddings Ave. grade.....		15 14	
Grand Ave. grade.....		5,085 01	
Grand Ave. opening.....		190 69	
Gordon Ave. grade.....		179 77	
Gauge St. grade			209 23
Genesee St. curbing.....			
Greenwood St. grade.....			15 43
Garden St. grade.....			690 86
Granger St. grade.....			
Hough Ave. grade.....			356 58
House St. grade.....			66 82
House of Correction.....	20,000 00		5,167 80
Herald St. grade.....		11,720 68	
Harvard St. grade.....		274 17	
Hayward St. grade.. ..			4,380 22
Hamilton St. grade.....		12 89	
Hamburgh St. grade, Clark to Storer		5 26	
Hamburgh St. grade, Clark to Train.....		51 75	
Huron St. paving, Ontario to Sheriff.....			4,674 29
Hague St. grade.. ..		4 64	
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
2,216 03	4,319 58	.....	.....	.....	.....
12,217 25	7,218 57	.....	.....	96 89	135 62
43,942 30	34,999 74	.....	.....	.....	462 44
4,025 87	4,033 64	.....	.....	12 77	177 84
795 38	800 75	.....	.....	5 37	20 35
214,184 52	296,590 02	.....	.....	67,840 67	.....
338 77	.....	.....	.....	.....	.....
11 51	26 65	.....	.....	.....	.....
.....	.....	.....	5,095 01	.....	4,726 41
.....	.....	.....	190 69	.....	474 72
6 10	185 87	.....	.....	.....	.....
209 23	.....	.....	.....	.....	.....
962 74	1,201 50	.....	.....	238 76	22 16
15 43	.....	.....	.....	.....	.....
717 98	27 12	.....	.....	.....	.....
.....	620 70	.....	.....	620 70	.....
356 58	.....	.....	.....	.....	.....
68 85	2 03	.....	.....	.....	.....
119,116 53	122,757 61	.....	.....	8,808 88	.....
.....	.....	.....	11,720 68	.....	11,588 54
8 00	.....	.....	282 17	.....	20 61
5,048 54	708 82	.....	.....	40 50	51 07
87 54	100 43	.....	.....	.....	.....
.....	5 26	.....	.....	.....	.....
44 87	96 62	.....	.....	.....	.....
5,863 72	784 05	.....	405 38	.....	.....
17 33	21 97	.....	.....	.....	.....
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
High St. paving		26 63	
Hill St. paving.....		1,378 24	
Hospital.....			409 51
Humboldt St. sewer, Croton to N. Y., C. & St. L.....			83 92
Humboldt St. sewer, Croton to Orange.....			100 94
Howe St. paving.....			
Hough Ave. sewer.....			
Howlett St. grade.....			
Infirmary.....			44,984 43
Interest.....			27,309 61
Iona St. cindering			1,172 06
Independence St. grade.....			232 82
Irving St. grade.....			
Jennings Ave. grade and paving.....	4,000 00		57 64
Julia St. grade.....			110 23
Johnson St. paving			310 51
Jessie St. grade.....			502 72
Jackson St. grade.....			11 10
Jones St. grade			91 11
Jessie St. sewer.....	7 00		
Kingsbury Bridge.....	245,000 00		13,994 37
Kinsman St. grade and pave.....	55,000 00	5,866 22	
Kentucky St. grade, etc.....		444 67	
Kennard St. paving, Prospect to Garden.....		3,341 65	
Kennard St. paving, Euclid to Prospect.....			
Lussenden St. grade.....			52 29
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
820 56	847 19	.....	.....	.....	.....
784 05	593 49	.....	1,568 80	.....	.....
3,090 59	3,949 68	.....	.....	1,268 20	.....
909 45	825 53	.....	.....	.....	29 64
569 39	468 45	.....	.....	.....	.....
20 65	20 65	.....	.....	.....	.....
4,343 54	4,406 69	.....	.....	63 15	54 57
59 23	598 37	.....	.....	539 14	142 90
164,395 38	125,807 73	.....	.....	6,296 78	.....
467,060 00	528,544 02	.....	.....	88,793 63	.....
1,508 88	45 10	.....	291 73	.....	.....
298 83	66 01	.....	.....	.....	.....
448 22	823 05	.....	.....	374 83	1 20
221 45	200 00	186 29	.....	36 19	.....
110 23	.....	.....	.....	.....	.....
310 51	.....	.....	.....	.....	.....
1 38	.....	.....	.....	501 36	8 24
120 80	109 70	.....	.....	.....	.....
91 11	.....	.....	.....	.....	.....
2,193 50	2,614 93	.....	.....	421 43	.....
4,769 93	150 00	.....	.....	9,374 44	.....
5,071 65	10,911 12	.....	26 75	.....	70,500 01
578 59	1,023 26	.....	.....	.....	.....
15,694 04	17,146 52	.....	1,889 17	.....	2,473 28
4,884 91	4,884 91	.....	.....	.....	.....
52 29	.....	.....	.....	.....	.....
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	
Lorain St. sewer.....			
Lexington Ave. grade.....			80 84
Lorain St. repaving, Pearl to Waverly.....			1,477 08
Lawn St. grade, etc.....			208 10
Lighting			16,489 96
Lake St. repave, Water to Ontario.....			92 10
Linwood St. grade.....			90 42
Lena Ave. sewer			
Liberal St. sewer.....			
Liberty St. sewer			
Lorain St. paving.....			
Lincoln Ave. grade, etc.....			
Lisbon St. grade			
Lodge Ave. grade.....			
McHenry St. sewer			484 23
Market.....			10,189 78
Marquette St. damages.....		1,121 47	.....
Morse Ave. grade.....			65 26
Monumental Square, repave.....			761 73
Middle St. paving.....		26 06	.....
McBride St. grade			88 25
Maple St. grade.....		58 84	.....
Merchants Ave. grade, etc		311 48	.....
Mayflower St. grade			
Muirson St. grade, Lake to Euclid.....			177 83
McLean St. sewer.....			
Miami Alley, paving.....			
New St. grading.....			112 33
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
1,022 40	2,044 90	.....	.....	1,022 50	.....
840 86	525 00	.....	235 02	.....	.....
1,477 08	.....	.....	.....	.....	13 15
243 10	35 00	.....	.....	.....	.....
150,779 67	162,155 98	.....	.....	18,886 27	.....
.....	.....	.....	.....	92 10	.....
130 27	39 85	.....	.....	.....	.....
3,140 40	3,297 70	.....	.....	157 30	.....
581 13	540 10	.....	41 03	.....	14 40
452 42	504 19	.....	.....	51 77	.....
5 25	3,856 30	.....	.....	3,851 06	.....
824 44	864 39	.....	.....	39 95	.....
21 17	475 25	.....	.....	454 08	28 48
685 87	640 55	.....	.....	4 68	13 84
666 50	182 27	.....	.....	.....	.....
27,963 30	18,059 25	.....	.....	265 73	.....
.....	.....	.....	1,121 47	.....	1,736 11
65 26	.....	.....	.....	.....	.....
761 73	.....	.....	.....	.....	.....
3,421 67	3,517 70	.....	.....	69 97	587 62
88 25	.....	.....	.....	.....	.....
78 30	99 54	.....	37 60	.....	.....
7 85	25 15	.....	294 18	.....	.....
579 95	672 10	.....	.....	92 15	.....
202 28	79 98	.....	.....	55 53	.....
69 95	640 50	.....	.....	570 55	6 34
1,015 94	1,015 94	.....	.....	.....	.....
124 26	11 93	.....	.....	.....	.....
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
North Woodland Ave. grade.....			508 14
Norwood St. grade, Hough to Luther.....			
Norwood St. grade, Superior to Luther			
Orange St. opening and extending			304 83
Ohio St. paving, Erie to Ontario.....	9,000 00	345 21	
Orange St. grade.....			206 43
Osborn St. grade, etc.....			276 54
Outhwaite St. sewer.....			
Oregon St. grade.....			
Police Court.....			1,079 97
Police Department.....	90,000 00		985 72
Park.....	80,000 00	1,442 59	
Parkman Lane grade			146 07
Payne Ave. opening.....		9,423 07	
Payne Ave. grade, Perry to Sterling.....		68 38	
Prospect St. repave, Erie to Perry.....			257 58
Portage St. grade.....			178 15
Perkins Ave. grade.....		413 58	
Prospect St. repave, Sterling to Case.....			206 76
Prospect St. repave, Perry to Sterling.....			389 07
Pearl St. paving, old account		484 96	
Perry St. paving, etc.....			817 54
Pittsburg St. paving.....	4,000 00		4,282 28
Purdy St. grading.....			41 75
Pelton Ave. sewer.....			
Pearl St. bridge, over Walworth Run.....	55,000 00		25,570 26
Petrie St. bridge.....	6,500 00		800 37
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
714 46	211 32	.....	.....	.....	.....
2,619 51	3,050 30	.....	.....	430 79	177 08
787 05	787 05	.....	.....	.....	.....
.....	.....	.....	.....	304 83	.....
7,355 80	7,952 58	.....	.....	251 57	135 36
206 43	.....	.....	.....	.....	.....
276 54	.....	.....	.....	.....	.....
1 56	532 43	.....	.....	580 87	25 69
505 96	554 36	.....	.....	48 41	.....
14,089 19	24,965 26	.....	.....	11,956 04	.....
252,127 65	292,116 13	.....	.....	40,973 90	.....
32,573 45	37,105 20	.....	.....	3,089 16	.....
149 07	3 60	.....	.....	.....	.....
.....	.....	.....	9,423 07	.....	1,056 91
8 00	.....	.....	76 38	.....	26 28
257 58	.....	.....	.....	.....	.....
183 45	5 30	.....	.....	.....	.....
431 67	109 50	.....	735 75	.....	.....
217 23	10 47	.....	.....	.....	.....
389 07	.....	.....	.....	.....	.....
.....	.....	484 96	481 96	.....	.....
817 54	.....	.....	.....	.....	.....
6,297 69	2,112 40	.....	.....	96 99	.....
49 25	7 50	.....	.....	.....	.....
6,324 77	6,452 20	.....	.....	127 43	51 15
21,236 77	.....	.....	.....	4,333 49	.....
802 90	.....	.....	2 53	.....	.....
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Perkins Ave. sewer.....			331 15
Petrie St. grade.....			
Prame St. grade.....			
Payne Ave. grade.....			
Perry St. repave, Prospect to Cedar.....			
Platt St. sewer.....			
Quincy St. paving and gutters.....		1,109 08	
Quimby St. sewer.....			247 75
Quincy St. grade, etc.....			
Rawlings Ave. grade, East Madison to C. & P. R'y.....		50 51	
Russell Ave. opening.....			273 33
Root St. sewer.....			
Rawlings Ave. grading, Herald to East Madison			
Reservoir St. grade			
Sibley St. grade, etc., Perry to Sterling.....			665 17
Southern Ave. curbing.....			317 87
Street Department.....			85 58
Sanitary			7,371 66
Sinking for General Bonds			883 62
St. Clair St. grade, Wilson to East Madison.....	800 00	73 19	
St. Clair St. repave, Erie to Wilson.....	4,000 00	2,377 18	
Street Intersection.....			6,042 28
Sawtell Ave. grade.....			91 43
State St. grade.....		569 62	
Superior St. repave, Water to Monumental Park.....			289 42
Sackett St. grade.....			34 38
Sago St. sewer.....			
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
107 76	359 75	.....	.....	583 14	.....
2,161 28	2,120 44	.....	40 84	.....	30 50
59 33	91 59	.....	.....	32 26	.....
2,983 71	4,240 56	.....	.....	1,256 85	102 48
6,036 65	6,315 33	.....	.....	278 68	.....
.....	550 00	.....	.....	550 00	.....
.....	1,632 95	.....	.....	523 92	.....
247 75	.....	.....	.....	.....	.....
609 58	909 02	.....	.....	209 44	.....
9 95	.....	.....	60 46	.....	.....
273 33	.....	.....	.....	.....	.....
556 77	883 20	.....	.....	326 43	83 13
177 70	274 60	.....	.....	96 90	13 05
320 88	394 32	.....	.....	73 44	.....
1,034 69	379 44	.....	.....	9 92	.....
537 34	219 47	.....	.....	.....	.....
105,069 95	126,924 29	.....	.....	21,939 92	.....
28,108 47	35,105 38	.....	.....	14,373 57	.....
219,000 00	241,036 51	.....	.....	22,920 13	.....
10 40	1,158 50	.....	.....	45 31	508 18
23,850 82	25,718 45	.....	509 55	.....	993 39
15,376 91	32,914 59	.....	.....	23,579 96	.....
123 37	31 94	.....	.....	.....	.....
7 85	.....	.....	577 47	.....	.....
289 42	.....	.....	.....	.....	.....
34 38	.....	.....	.....	.....	.....
2 57	2 57	.....	.....	.....	.....
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1899.	Balance Debit January 1, 1898.	Balance Credit January 1, 1898.
<i>Forward</i>	\$	\$	\$
Seneca St. opening damages.....			149 94
Superior St. grade and pave, Perry to Wilson.....		4,198 74	
Superior St. widening.....	6,000 00		19 15
St. Clair St. widening.....	3,000 00	107 58	
Sibley St. grade, Sterling to Hayward.....			146 29
Summit St. opening.....	3,000 00	1,800 00	
Spring St. repaving		411 92	
Superior St. repaving, Erie to Perry.....		108 20	
Smith Alley sewer.....		10 11	
Sewer District No. 3, East Cleveland.....			205 22
Sewer District No. 1.....			3,336 25
Sewer District No. 2.....		1,161 31	
Sewer District No. 3.....			4,552 98
Sewer District No. 4.....		1,696 66	
Sewer District No. 5.....		4,241 18	
Sewer District No. 6.....			434 53
Sewer District No. 7.....	142,300 00	6,298 78	
Sewer District No. 8.....		431 31	
Sewer District No. 9.....			1,144 65
Sewer District No. 10.....			130 00
Sewer District No. 11.....	8,000 00		4,999 16
Sewer District No. 12.....		3,050 82	
Sewer District No. 15.....	126,000 00		12,474 44
Sewer District No. 16.....	17,000 00		7,799 56
Sewer District No. 17.....	22,000 00	4,901 59	
Sewer District No. 18.....			52 80
Sheriff St. paving, Huron to Bolyar.....		182 90	
Sheriff St. paving, Prospect to Huron.....		825 88	
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
151 90	1 96				
144 60	3,576 79		766 55		811 43
240 00	250 00			29 15	248 81
187 67	342 40			47 15	4,046 74
146 29					
2,290 00	4,075 00		15 00		599 21
230 62	642 44				
76 76	184 96				
46 22	431 62			375 31	7 50
205 22					
1,789 78	571 90			2,118 37	
2,168 42	2,701 18		628 55		
1,601 12	1,442 36			4,394 22	
931 79	3,964 78			1,356 33	
17,498 54	28,687 04			6,947 32	
77 29	1,425 71			1,782 95	
42,643 10	57,216 61			8,274 73	
47 85	993 46			514 30	
555 32	480 25			1,069 58	
45 68	791 75			876 07	
7,781 21	6,707 40			3,925 35	
215 91	3,309 19			42 46	
106,514 65	125,553 19			31,512 98	
16,931 48	11,017 59			1,885 67	
5,802 47	19,362 42			8,658 36	
215 56	3,679 69			3,516 93	
7 85			190 75		78 11
15 55			841 43		
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Sheriff St. repave, Euclid to Prospect.....		414 08	
Sheriff St. damages, Prospect to Huron.....			55 14
St. Clair St. sewer.....	22,000 00	2,146 95	
South Bell Ave. grade.....			
Streator Ave. grade.....			
Sykora St. grade.....			
St. Clair St. grade, East Madison to Becker.....			
Seneca St. bridge.....			
Suspended Account.....			
Sibley St. grade and pave, Hayward to Case.....	8,000 00		
Taylor St. grade, Bridge to Lorain.. ..			138 81
Townsend St. grade.....		17 16	
Tax Refunding, old accounts.....			
Taylor St. grade, Franklin to Bridge.....			
Tilden Ave. grade.....			
Tax Refunding, new accounts.....			
Unclaimed money.....			
Viaduct and Canal Sinking Fund.....			899,374 70
Viaduct Fund.....	2,138,000 00		
Vincent St. opening.....			28 83
Vincent St. grade and pave, Erie to Bond.....		1,248 13	
Vienna St. grade.....			542 52
Willson Ave. opening, north of St. Clair.....	11,000 00	2,894 88	
Water Works.....	1,775,000 00		81,448 47
Wade Park Ave. sewer.....			
Waverly Ave. sewer, Bridge to Lorain.....			
<i>Forward</i>	\$	\$	\$

TABLE NO. 4.—*Continued.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
.....	107 40	.....	306 68	.....	107 45
1,888 75	1,614 28	.....	219 33	.....	145 78
1,010 00	3,250 00	.....	.....	93 05	58 02
1,464 00	1,464 00	.....	.....	.....	221 65
997 55	1,026 41	.....	.....	28 86	69 46
344 55	345 56	.....	.....	1 01	22 14
3,831 02	3,831 02	.....	.....	.....	.....
39,178 00	40,158 64	.....	.....	980 64	.....
130,890 97	.....	.....	130,890 97	.....	.....
7,791 35	8,140 28	.....	.....	348 93	.....
209 73	70 92	.....	.....	.....	52 10
8 00	.....	.....	25 16	.....	.....
16,079 98	18,936 99	.....	.....	2,857 01	.....
1,191 67	1,191 67	.....	.....	.....	.....
984 56	1,038 86	.....	.....	54 30	41 68
3,678 03	13,027 47	.....	.....	9,349 44	.....
3,312 08	3,312 08	.....	.....	.....	.....
.....	94,328 13	.....	.....	783,702 83	.....
.....					
2,320 08	2,291 25	.....	.....	.....	.....
26 47	1,274 60	.....	.....	.....	.....
644 53	109 15	.....	.....	7 14	.....
583 36	3,600 00	.....	.....	116 76	13,559 52
444,126 14	438,607 58	.....	.....	75,929 91	.....
3,079 99	3,887 48	.....	.....	807 49	33 59
5,068 35	5,718 80	.....	.....	650 45	275 82
\$	\$	\$	\$	\$	\$

TABLE NO. 4.—*Continued.*

	Amount of Bonds and Notes out- standing January 1, 1889.	Balance Debit January 1, 1888.	Balance Credit January 1, 1888.
<i>Forward</i>	\$	\$	\$
Willson Ave. grade, Julia to Maurice.....			1,576 77
Whitman St. grade, etc.....			74 72
Waverly Ave. curb.....		29 99	
Willson Ave. grade, Maurice to Sawtell.....			4,254 96
Woodland Ave. grade, E. Madison to Woodland H. Ave.....			1,339 04
West Clinton St. grade.....			31 09
Woodland Ave. repave, Ohio to Perry.....			450 48
Woodland Ave. repave, Perry to Willson.....			475 08
Watkins Ave. grade, etc.....			179 58
Willson Ave. damages.....	4,000 00	1,331 84	
Walnut St. grade			28
Willson Ave. grade and pave, Euclid to Woodland.....			4,856 91
Wall St. grade.....			200 75
Walz St. grade.....			18 09
Williams St. grade.....			304 74
White Ave. grade.....			25 43
Waring St. sewer			32 01
Willett St. sewer.....			
Walton Ave. sewer.....			
Willey and Tracy St. sewer.....			
Whitehead St. grade.....			
Willow St. bridge.....			
Total amount of overdrawn accounts.....			
City Treasury, Dr.			
To cash on hand January 1, 1889.....			
Sinking Fund Commissioners, Dr.			
To General Sinking Fund.....			
To Viaduct and Canal Sinking Fund.....			
TOTAL.....		\$151,973 54	\$1,087,667 28

TABLE NO. 4.—*Concluded.*

Disbursements for the year 1888.	Receipts for the year 1888.	Amounts due from Street R'y Companies.	Amounts Overdrawn January 1, 1889.	Cash on hand January 1, 1889.	Delinquent tax January 1, 1889.
\$	\$	\$	\$	\$	\$
251 85				1,324 92	
74 72					
6 76	5 80		30 95		
				4,254 96	
1,432 65	93 61				
31 09					
450 48					
748 13	273 05				
107 74				71 84	
401 31	1,852 80			119 63	2,229 15
28					
9,397 03	4,540 12				
200 75					
18 09					
318 64	13 90				
81 33	55 90				
336 51	168 90		135 60		236 53
1,406 11	2,435 50			1,029 39	109 08
26 00	571 05			545 05	23 12
13 06	1,604 80			1,591 74	
93 54	108 05			14 51	2 27
	625 00			625 00	
			194,843 09		
			476,637 59		
			22,920 13		
			793,048 83		
\$3,720,206 41	\$4,077,118 22	\$ 9,086 39	\$ 1,487,449 64	\$ 1,487,449 64	

TABLE NO. 4.—*Continued.*

RECAPITULATION No. 1.

Total credit balances January 1, 1888.....	\$ 1,087,067 28	
Total receipts for the year 1888.....	4,077,118 22	\$ 5,164,785 50
Total debit balances January 1, 1888.....	151,973 54	
Total disbursements for the year 1888.....	3,720,205 41	3,872,178 96
Balance credit January 1, 1889.....		\$ 1,292,606 56

TABLE NO. 4.—*Continued.*RECAPITULATION No. 1.—*Continued.*

Account with Sinking Fund Commissioners January 1, 1899.	
To credit of the General Sinking Fund.....	\$ 22,920 13
To credit of Viaduct Sinking Fund.....	793,048 83
Account with City Treasurer January 1, 1899.....	476,637 59
Balance credit January 1, 1899.....	1,292,606 55

RECAPITULATION No. 2.

Total disbursements as shown by Table No. 1.....		\$3,596,424 85
Less the following:		
Amount paid to Sinking Fund Commissioners for investment.....	\$ 289,983 31	289,983 31
Actual disbursements for the year 1888.....		\$3,306,441 54

TABLE NO. 4.—*Continued.*RECAPITULATION No. 2.—*Continued.*

Total indebtedness as shown by Table No. 4.....		\$3,720,206 41
<i>Included in the above are the following transfers:</i>		
From Market Fund to Fire Department.....	\$ 5,000 00	
From Market Fund to Police Court Fund.....	5,000 00	
From Market Fund to Sewer District No. 4.....	1,572 00	
From Market Fund to Willow street Bridge.....	500 00	
From Market Fund to Bridge Fund.....	3,000 00	
From Street Intersections to Sundry Funds.....	15,376 91	
From Sundry Street Improvement Funds to General Fund...	5,786 34	
From General Sinking Fund to General Fund.....	25,000 00	
From General Sinking Fund to Infirmary Fund.....	40,000 00	
From General Sinking Fund to Park Fund.....	7,000 00	
From various funds to Suspended Account Fund.....	130,690 97	
From Sewer District No. 15 to E. Madison avenue Sewer, Euclid to Woodland.....	60,000 00	
From Sewer District No. 15 to E. Madison avenue Sewer, Lena to Lake Erie.....	8,000 00	
From Sewer District No. 5 to Courtland street Sewer.....	10,000 00	
From Sewer District No. 5 to Waverly avenue Sewer.....	3,000 00	
Miscellaneous transfers.....	94,637 65	
Total transfers.....		413,763 87
Actual disbursements for the year 1888.....		\$3,306,441 54

TABLE No. 4.—*Continued.*

RECAPITULATION No. 3.

SHOWING THE AMOUNT OF THE GENERAL AND
SPECIAL INDEBTEDNESS OF THE CITY OF
CLEVELAND, JANUARY 1, 1889.

Amount of General bonded debt.....		\$7,648,500 00
Amount of Special bonded debt.....		
Street improvements.....	\$ 244,000 00	
Street damages.....	27,000 00	
Sewers.....	356,300 00	627,300 00
Total bonded indebtedness.....		8,275,800 00
Temporary loans for special improvements:		
Case Ave. grading and paving, Payne Ave. to L. S. & M. S. Ry.....Note No. 85	2,500 00	
Case Ave. grading and paving, Payne Ave. to L. S. & M. S. Ry....." 86	2,500 00	
E. Madison Ave. Sewer, Euclid to Woodland....." 87	2,500 00	
" " " " " 88	2,500 00	
" " " " " 89	2,500 00	
" " " " " 90	3,000 00	
" " " " " 91	3,000 00	
Case Ave. paving Payne Ave. to L. S. & M. S. Ry " 92	5,000 00	
" " " " " 93	5,000 00	
" " " " " 94	5,000 00	
" " " " " 95	5,000 00	
E. Madison Ave. Sewer, Euclid to Woodland Ave. " 96	3,750 00	
" " " " " 97	3,750 00	
Case Ave. paving, Payne Ave. to L. S. & M. S. Ry. " 98	3,250 00	
" " " " " 99	3,250 00	
St. Clair St. grading....." 100	800 00	
Sibley St. paving, Case to Hayward....." 101	4,000 00	
" " " " " 102	4,000 00	
Jessie St. Sewer....." 103	350 00	
" " " " " 104	350 00	
Broadway, repaving Union to Mead....." 105	6,000 00	
" " " " " 106	6,000 00	74,000 00
Overdrafts in special accounts.....		194,843 09
Total indebtedness.....		\$8,544,643 09

TABLE No. 5.

THE MUNICIPAL LEVY IN THE TAX OF 1888, UPON A
VALUATION OF \$95,922,585.00, TO MEET THE
EXPENSES OF 1889.

FOR WHAT FUND.	Mills per Dollar.	Amount Levied.	
Bridge.....	5-20	\$ 23,480 65	
Dredging	2-20	9,592 26	
Fire	2 9-20	235,010 33	
General.....	11-20	52,757 42	
House of Correction.....	3-20	14,388 39	
Hospital Commission.....	1-20	4,796 13	
Interest	4 15¼-20	458,030 34	
Lighting.....	1 10-20	143,883 88	
Parks.....	4-20	19,184 52	
Police	1 15-20	167,864 52	
Sanitary	5-20	23,980 65	
Sinking Fund (General Bonds).....	2 15-20	263,787 11	
Sinking Fund (Viaduct Bonds)	¼-20	2,398 06	
Street	18-20	86,330 33	
Street Intersections.....	7-20	33,572 90	
Crosswalks	2-20	9,592 26	
Total.....	16 3-20		\$ 1,549,149 75

TABLE No. 6.

STATEMENT SHOWING THE AMOUNT AND PROCEEDS OF THE SALE OF BONDS IN THE
CITY OF CLEVELAND DURING THE YEAR 1888.

January 16, 1888, the following described bonds were sold to C. H. Venner & Co., of Boston, Mass., for a premium of \$4,275 and accrued interest:		
\$100,000.—5% semi-annual bonds for elevated roadway	\$ 109,918 84	\$ 109,918 81
June 30, 1888, the following described bonds were sold to the Sinking Fund Commissioners at par and accrued interest:		
\$52,000.—5% semi-annual bonds for elevated roadway	52,216 67	52,216 67
September 1, 1888, the following described bonds were sold to the Sinking Fund Commissioners at par and accrued interest:		
\$12,000.—5% semi-annual bonds for elevated roadway	12,150 00	12,150 00
September 14, 1888, the following described bonds were sold to Blake Bros. & Co., of Boston, Mass.:		
\$28,000.—5% semi-annual bonds for elevated roadway, at 11 13-100% and accrued interest	28,000 00	
29,000.—5% " " funded debt at 9 2-100% and accrued interest	29,000 00	
13,000.—5% " " Sewer District No. 5, at 4 82-100% and accrued interest	13,000 00	
6,000.—5% " " " 5, at 2 53-100% " "	6,000 00	
20,000.—5% " " " 7, at 6 14-100% " "	20,000 00	
20,000.—5% " " " 15, at 6 14-100% " "	20,000 00	
45,000.—5% " " " 15, at 6 78-100% " "	45,000 00	
5,000.—5% " " Street Improvements, at 1 53-100% " "		
Ohio Street Paving, Erie to Ontario	1,000 00	
St. Clair Street Repaving, Erie to Willson	4,000 00	
Total premium and accrued interest	15,725 90	181,725 90

TABLE NO. 6.—*Continued.*

September 25, 1888, the following described bonds were sold to the Sinking Fund Commissioners at par and accrued interest:		
\$22,000.—5% semi-annual bonds for elevated roadway.....	\$ 22,332 60	\$ 22,352 60
December 17, 1888, the following described bonds were sold to the Sinking Fund Commissioners at par and accrued interest:		
\$10,000.—5% semi-annual bonds for elevated roadway.....	10,023 29	10,023 29
December 24, 1888, the following described bonds were sold to S. A. Kean & Co., of New York, at 5% and accrued interest:		
\$25,000.—5% semi-annual bonds for Sewer District No. 15.....	26,631 42	26,631 42
Total bond premium and interest.....		\$ 415,018 72

TABLE NO. 6.—Continued.

SHOWING PROCEEDS OF SALE OF BONDS IN 1888 AND HOW PLACED.

The proceeds of the sale of bonds in 1888 (\$415,018 72) has been placed to the credit of the following accounts:		
Broadway paving, Ohio to Independence		\$ 1,400 00
Broadway paving, Independence to Union.....		2,700 00
Broadway paving, Union to Miles		5,200 00
Euclid avenue paving, west of Erie street		500 00
Elevated roadway.....		224,000 00
Interest Fund.....		17,487 04
Jennings avenue, grading and paving.....		200 00
Kinsman street, grading, paving, etc.....		7,900 00
Ohio street, paving Erie to Ontario		1,038 59
Superior street, widening east of Willson avenue		250 00
Summit street, opening		4,000 00
St. Clair street sewer		3,250 00
St. Clair street, repaving east of Willson avenue.....		4,154 35

TABLE NO. 6.—*Concluded.*

Sewer District No. 5.....	20,220 86
" " 7.....	21,683 75
" " 15.....	97,424 13
Wilson avenue, opening north of St. Clair street.....	3,600 00
Total proceeds of sale of bonds.....	\$ 415,018 72

TABLE No. 7.

STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF THE CITY OF

Class of Bonds.	Rate per cent.	Date of Original Issue.	Am't of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1889	1890	1891	1892	1893	1894
Water Works...	7	1872-1873	600,000	May & Nov.	3-42				400,000	200,000	
"	6	1875-1876	200,000	Mar. & Sept.	3-65						
"	3 ⁸⁵ / ₁₀₀	1882	100,000	"	3-74						
"	4	1883	100,000	Jan. & July	2-40						
"	6	1883-1884	500,000	Mar. & Sept.	2-44						
"	6	1885	275,000	"	2-62						
Funded debt....	7	1872	200,000	Feb. & Aug.	3-101			200,000			
"	7	1872	230,000	Mar. & Sept.	3-109				230,000		
"	7	1873	200,000	Feb. & Aug.	3-118					200,000	
"	7	1874	200,000	Apr. & Oct.	3-137						200,000
"	7	1874	200,000	May & Nov.	3-145	200,000					
"	7	1874	67,000	June & Dec.	3-126	67,000					
"	6	1878	178,000	"	3-155		178,000				
"	5	1880	308,000	Mar. & Sept.	1-112						
"	5	1884	26,000	Apr. & Oct.	1-132						
"	4	1885	17,000	"	1-143					17,000	
"	4	1886	117,000	Mar. & Sept.	1-148						
"	5	1887	177,000	Apr. & Oct.	1-157						
"	5	1887	88,000	"	1-154						
"	5	1888	29,000	"	2-74						
Monume'l P'rk.	7	1872	30,000	"	1-1				30,000		
Lake View Park	7	1874	50,000	May & Nov.	1-31	50,000					
Canal.....	7	1874	150,000	Jan. & July	1-19						150,000
"	7	1876	114,000	Mar. & Sept.	1-50						
"	6	1879	11,000	May & Nov.	1-74						
Viaduct	7	1873	81,000	Feb. & Aug.	1-3					81,000	
"	7	1873	67,000	June & Dec.	1-15					67,000	
"	7	1874	65,000	May & Nov.	1-25						65,000
"	7	1875	205,000	Apr. & Oct.	1-28						205,000
"	7	1876	300,000	"	1-38						
"	6	1877	500,000	Feb. & Aug.	1-54						
<i>Forward</i>						317,000	178,000	200,000	66,000	565,000	620,000

TABLE No. 7.—*Continued.*

CLEVELAND OUTSTANDING DEC. 31, 1888, AND MATURING AS FOLLOWS:

1885	1886	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	Total.	Bonds Out- standing Jan- uary 1, 1889.
													600,000	
200,000													200,000	
							100,000						100,000	
								100,000					100,000	
		500,000											500,000	
					275,000								275,000	1,775,000
													200,000	
													230,000	
													200,000	
													200,000	
													200,000	
													67,000	
													178,000	
	275,000												275,000	
		26,000											26,000	
													17,000	
			117,000										117,000	
				177,000									177,000	
				88,000									88,000	
					29,000								29,000	2,005,000
													30,000	30,000
													50,000	50,000
													150,000	
88,000	26,000												114,000	
			11,000										11,000	275,000
													81,000	
													67,000	
													65,000	
													205,000	
300,000													300,000	
	500,000												500,000	
588,000	802,000	528,000	227,000	265,000	304,000		100,000	100,000						4,135,000

TABLE NO. 7.—*Continued.*

STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF THE CITY OF

Class of Bonds.	Rate per cent.	Date of Original Issue.	Am't of Original Issue.	Months when Principal and Interest are due.	Record Number and Page.	1889	1890	1891	1892	1893	1894
<i>Forward.....</i>						317,000	178,000	200,000	660,000	565,000	620,000
Viaduct	5	1877	125,000	June & Dec.	1-75	.....	.....	.....	.....	.....	.....
“	6	1877	125,000	“	1-80	.....	.....	.....	.....	.....	.....
“	6	1877	100,000	May & Nov.	1-85	.....	.....	.....	.....	.....	.....
“	6	1878	100,000	Mar. & Sept.	1-89	.....	.....	.....	.....	.....	.....
“	6	1878	300,000	June & Dec.	1-93	.....	.....	.....	.....	.....	.....
“	6	1878	170,000	May & Nov.	1-104	.....	.....	.....	.....	.....	.....
Kingab'y Bridge	5	1884	65,000	Apr. & Oct.	2-100	.....	.....	.....	.....	.....	.....
“	4½	1885	60,000	“	2-103	.....	.....	.....	.....	.....	.....
“	4	1885	60,000	“	2-105	.....	.....	.....	.....	.....	.....
“	4	1886	30,000	May & Nov.	2-106	.....	.....	.....	.....	.....	.....
“	4	1887	10,000	Mar. & Sept.	2-107	.....	.....	.....	.....	.....	.....
“	5	1887	20,000	Apr. & Oct.	2-108	.....	.....	.....	.....	.....	.....
General Bonds..	4½	1885	200,000	June & Dec.	1-135	.....	50,000	90,000	.....	.....	.....
“	4	1886	25,000	Apr. & Oct.	1-147	.....	.....	.....	.....	.....	.....
Eleva'd R'dw'y	4	1886	175,000	Jan. & July	2-120	.....	.....	.....	.....	.....	.....
“	4	1886	60,000	May & Nov.	2-126	.....	.....	.....	.....	.....	.....
“	4	1886	100,000	Apr. & Oct.	2-128	.....	.....	.....	.....	.....	.....
“	4	1887	100,000	July & Jan.	2-132	.....	.....	.....	.....	.....	.....
“	4	1887	75,000	Dec. & June	2-135	.....	.....	.....	.....	.....	.....
“	5	1887	150,000	“	2-138	.....	.....	.....	.....	.....	.....
“	5	1888	100,000	“	2-143	.....	.....	.....	.....	.....	.....
“	5	1888	114,000	“	2-147	.....	.....	.....	.....	.....	.....
“	5	1888	10,000	June & Dec.	2-150	.....	.....	.....	.....	.....	.....
Pearl St. Bridge	4	1886	10,000	Apr. & Oct.	1-144	.....	.....	.....	.....	.....	.....
“	4	1887	25,000	“	1-144	.....	.....	.....	.....	.....	.....
“	5	1887	20,000	“	1-145	.....	.....	.....	.....	.....	.....
Petrie St. Brid'g	4	1887	5,000	Oct. & Apr.	1-153	.....	.....	.....	.....	.....	5,000
“	5	1887	1,500	Ap. 15 & Oc. 15	1-153	1,500	.....	.....	.....	.....	.....
Total.....						318 500	228,000	280,000	660,000	565,000	625,000

TABLE NO. 7.—*Continued.*

CLEVELAND OUTSTANDING DEC. 31, 1888, AND MATURING AS FOLLOWS:

1885	1886	1887	1888	1889	1900	1901	1902	1903	1904	1905	1906	1907	Total.	Bonds Out- standing Jan- uary 1, 1889.
588,000	802,000	528,000	227,000	265,000	304,000	.....	100,000	100,000	.....	.....	.....	.....	.....	4,135,000
.....											125,000	.....	125,000	.....
.....		125,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	125,000	.....
.....		100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000	.....
.....			100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000	.....
.....			300,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	300,000	.....
.....			170,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	170,000	2,188,000
.....				65,000	.....	.....	.....	.....	.....	.....	.....	.....	65,000	.....
.....				60,000	.....	.....	.....	.....	.....	.....	.....	.....	60,000	.....
.....					60,000	.....	.....	.....	.....	.....	.....	.....	60,000	.....
.....					30,000	.....	.....	.....	.....	.....	.....	.....	30,000	.....
.....					10,000	.....	.....	.....	.....	.....	.....	.....	10,000	.....
.....					20,000	.....	.....	.....	.....	.....	.....	.....	20,000	245,000
20,000													160,000	.....
25,000													25,000	185,000
.....						175,000	.....	.....	.....	.....	.....	.....	175,000	.....
.....						60,000	.....	.....	.....	.....	.....	.....	60,000	.....
.....							100,000	.....	.....	.....	.....	.....	100,000	.....
.....								100,000	.....	.....	.....	.....	100,000	.....
.....								75,000	.....	.....	.....	.....	75,000	.....
.....								150,000	.....	.....	.....	.....	150,000	.....
.....									100,000	.....	.....	.....	100,000	.....
.....									114,000	.....	.....	.....	114,000	.....
.....									10,000	.....	.....	.....	10,000	884,000
.....							10,000	.....	.....	.....	.....	.....	10,000	.....
.....							20,000	5,000	.....	.....	.....	.....	25,000	.....
.....								20,000	.....	.....	.....	.....	20,000	55,000
.....													5,000	.....
.....													1,500	6,500
633,000	802,000	751,000	698,000	390,000	424,000	235,000	230,000	450,000	224,000	.....	125,000	.....	.....	7,648,500

Amount of General Bonds outstanding December 31, 1888.....\$7,648,500

Amount of General Bonds outstanding December 31, 1887.....7,614,500

Increase during the year 1888.....\$ 34,000

TABLE No. 8.

STATEMENT SHOWING AMOUNT AND MATURITY OF
STREET IMPROVEMENT BONDS OUTSTANDING
DEC. 31, 1888, AND MATURING
AS FOLLOWS:

	Rate pr. ct.	Months when principal and interest are due.	Record No. and page.	1889	1890	Total.
Atlantic St. Grading, etc.....	5	Apr. & Oct.	7-226	.....	1,000	1,000
Abbey St. paving, etc.....	5	"	7-224	4,000	.....	4,000
Broadway paving, Ohio to Independence.....	4	Oct. & Apr.	7-210	5,000	.....	5,000
Broadway paving, Independence to Union.....	4	"	7-210	19,000	.....	19,000
Broadway paving, Ohio to Independence.....	5	Apr. & Oct.	7-225	2,000	.....	2,000
Broadway paving, Union to Miles.....	4	Oct. & Apr.	7-211	104,000	.....	104,000
Broadway paving, Union to Miles.....	5	"	7-225	6,000	.....	6,000
Davies St. paving, Broadway to N.Y., P. & O.	4	"	7-218	4,000	.....	4,000
Fairmount St. repaving.....	4	Apr. & Oct.	7-222	5,000	6,000	11,000
Jennings Ave. paving, etc.....	5	"	7-225	4,000	.....	4,000
Euclid Ave. paving, west of Erie.....	5	"	7-225	12,000	.....	12,000
Kinsman St. paving, etc.....	4	Oct. & Apr.	7-215	32,000	.....	32,000
Kinsman St. paving, etc.....	5	Apr. & Oct.	7-226	.....	23,000	23,000
Ohio St. paving, Erie to Ontario	5	"	7-224	4,000	4,000	8,000
Ohio St. paving, Erie to Ontario	5	"	7-227	.....	1,000	1,000
Pittsburgh St. paving, Liberal to Jackson.....	4	"	7-222	2,000	2,000	4,000
St. Clair St. repaving, Erie to Willson.....	5	"	7-227	.....	4,000	4,000
				203,000	41,000	244,000

Amount of Street Improvement Bonds outstanding December 31, 1887.....\$292,000

Amount of Street Improvement Bonds outstanding December 31, 1888 244,000

Decrease during the year 1888.....\$ 48,000

TABLE No. 9.

**STATEMENT SHOWING AMOUNT OF STREET DAMAGE
BONDS OUTSTANDING DECEMBER 31, 1888,
AND MATURING AS FOLLOWS:**

	Rate per cent.	Months when prin- cipal and interest are due.	Record No. and page.	1889	1890	Total.
Superior St. widening, east of Willson.....	4	Oct. & Apr.	7-217	6,000	.....	6,000
Summit St. opening.....	7	September.	4-175	3,000	.....	3,000
St. Clair St. widening, east of Willson.....	5	Apr. & Oct.	4-186	3,000	.....	3,000
Willson Ave. opening, north of St. Clair.....	5	"	4-186	.....	11,000	11,000
Willson Ave. grading, Sawtell to Broadway..	5	"	4-186	.....	4,000	4,000
				12,000	15,000	27,000

Amount of Street Damage Bonds outstanding December 31, 1887.....\$29,000

Amount of Street Damage Bonds outstanding December 31, 1888..... 27,000

Decrease during the year 1888.....\$ 2,000

TABLE NO. 10.

STATEMENT SHOWING AMOUNT OF SEWER BONDS
OUTSTANDING DECEMBER 31, 1888, AND
MATURING AS FOLLOWS:

	Rate per cent.	Months when prin- cipal and interest are due.	Record No. and page.	1889	1890	1891
Sewer District No. 5.....	5	Oct. & Apr.	5-129	\$.....	\$.....	\$ 6,000
" " 5.....	5	Oct. & Apr.	5-129	.....	.....	.....
" " 7.....	7	Mar. & Sept.	5-179	20,000	22,000	.....
" " 7.....	7	Mar. & Sept.	5-182	9,600	.....	.....
" " 7.....	7	September.	5-183	.....	.....	.....
" " 7.....	5	Apr. & Oct.	5-187	.....	.....	3,000
" " 7.....	4	Apr. & Oct.	5-188	.....	.....	14,000
" " 7.....	5	Apr. & Oct.	5-186	.....	.....	.....
" " 7.....	5	Apr. & Oct.	5-191	.....	.....	.....
" " 7.....	5	Oct. & Apr.	5-191	.....	.....	.....
" " 11.....	4	Oct. & Apr.	6-62	4,000	4,000	.....
" " 15.....	5	Apr. & Oct.	6-115	2,000	.....	.....
" " 15.....	4	Apr. & Oct.	6-117	7,000	9,000	.....
" " 15.....	5	Apr. & Oct.	6-140	.....	.....	12,000
" " 15.....	5	Oct. & Apr.	6-119	6,000	.....	.....
" " 15.....	5	Oct. & Apr.	6-140	.....	.....	.....
" " 15.....	5	Oct. & Apr.	6-142	.....	.....	.....
" " 16.....	5	Apr. & Oct.	6-121	3,000	3,000	4,000
" " 16.....	5	Apr. & Oct.	6-122	3,000	.....	.....
" " 17.....	5	Oct. & Apr.	6-126	2,000	2,000	2,000
St. Clair St. Sewer.....	4	Oct. & Apr.	6-118	9,000	.....	.....
" " 	5	Apr. & Oct.	6-120	13,000	.....	.....
Total.....				78,600	40,000	41,000

TABLE NO. 10.—*Continued.*

1892.	1893.	1894.	1895.	1896.	1897.	Total.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 6,000
		13,000				13,000
						42,000
						9,600
10,700						10,700
						3,000
5,000	5,000					24,000
	11,000					11,000
		22,000				22,000
				20,000		20,000
						8,000
						2,000
						16,000
						12,000
						6,000
				20,000	45,000	65,000
		25,000				25,000
4,000						14,000
						3,000
4,000	4,000	4,000	4,000			22,000
						9,000
						13,000
\$ 23,700	\$ 20,000	\$ 64,000	\$ 4,000	\$ 40,000	\$ 45,000	\$ 356,300

Amount of Sewer Bonds outstanding December 31, 1888\$356,300

Amount of Sewer Bonds outstanding December 31, 1887..... 290,100

Increase during the year 1888.....\$ 66,200

TABLE NO. II.
 RECAPITULATION OF THE BONDED INDEBTEDNESS OF
 THE CITY OF CLEVELAND, DECEMBER 31,
 1888, MATURING AS FOLLOWS:

	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Water Works.....	\$.....	\$.....	\$.....	\$400,000	\$ 20,000	\$.....	\$ 200,000	\$.....
Funded Debt.....	26,700	178,000	200,000	230,000	217,000	200,000	.....	276,000
Monumental Park.....	.....	.....	.....	30,000	.....	.....	.....	.....
Lake View Park...	50,000	.....	.....	.....	.....	.....	.....	.....
Canal .....	.....	.....	.....	.....	.....	150,000	88,000	26,000
Viaduct .....	.....	.....	.....	.....	148,000	270,000	300,000	500,000
Kingsbury Bridge.....	.....	.....	.....	.....	.....	.....	.....	.....
General.....	.....	50,000	90,000	.....	.....	.....	45,000	.....
Elevated Roadw'y .....	.....	.....	.....	.....	.....	.....	.....	.....
Pearl St. Bridge...	.....	.....	.....	.....	.....	.....	.....	.....
Petrie St. Bridge...	1,500	.....	.....	.....	.....	5,000	.....	.....
Total Gen'l Bonds	\$318,500	\$228,000	\$290,000	\$660,000	\$535,000	\$625,000	\$633,000	\$802,000
St. Improv. Bonds	208,000	41,000	.....	.....	.....	.....	.....	.....
St. Damage Bonds	12,000	15,000	.....	.....	.....	.....	.....	.....
Sewer Bonds.....	78,600	40,000	41,000	23,700	20,000	64,000	4,000	40,000
Total.....	\$612,100	\$ 32,400	\$331,000	\$683,700	\$385,000	\$689,000	\$637,000	\$842,000

TABLE NO. II.—*Continued.*

1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1907.	Total.
\$500,000	\$.....	\$.....	\$275,000	\$.....	\$100,000	\$100,000	\$.....	\$.....	\$ 1,775,000
26,000	117,000	265,000	29,000	.....	.....	.....	.....	.....	2,005,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	30,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	50,000
.....	11,000	.....	.....	.....	.....	.....	.....	.....	275,000
225,000	570,000	.....	.....	.....	.....	.....	.....	125,000	2,138,000
.....	.....	125,000	120,000	.....	.....	.....	.....	.....	245,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	185,000
.....	.....	.....	.....	235,000	100,000	325,000	224,000	.....	884,000
.....	.....	.....	.....	.....	30,000	25,000	.....	.....	55,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	6,500
\$751,000	\$698,000	\$390,000	\$424,000	\$235,000	\$230,000	\$450,000	\$221,000	\$125,000	\$ 7,648,500
.....	.....	.....	.....	.....	.....	.....	.....	.....	244,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	27,000
45,000	.....	.....	.....	.....	.....	.....	.....	.....	356,300
\$796,000	\$698,000	\$390,000	\$424,000	\$235,000	\$230,000	\$450,000	\$224,000	\$125,000	\$ 8,275,800

Amount of General and Special bonded indebtedness December 31, 1887.....\$3,225,600

Amount of General and Special bonded indebtedness December 31, 1888..... 8,275,800

Increase during the year 1888.....\$ 50,200

TABLE NO. 12.
SHOWING COMPARISON OF THE CITY DEBT JANUARY
1, 1888, AND JANUARY 1, 1889.

JANUARY 1, 1888.		
General bonds outstanding.....	\$7,614,500 00	
Special bonds outstanding.....	611,100 00	
Overdrafts.....	151,973 54	
Temporary loans.....	6,670 00	
Total debt		\$8,384,243 54
JANUARY 1, 1889.		
General bonds outstanding	\$7,648,500 00	
Special bonds outstanding.....	627,300 00	
Overdrafts.....	194,843 09	
Temporary loans.....	74,000 00	
Total debt		8,544,643 09
Net increase of city debt of all kinds during the year 1888.....		\$ 160,399 55

TABLE No. 13.

PRINCIPAL AND INTEREST OF BONDS MATURING IN
EACH MONTH OF 1889.

	Bonds.	Interest.	Total.
January.....	\$.....	\$ 12,750 00	\$ 12,750 00
February.....		31,835 00	31,835 00
March.....		57,361 00	57,361 00
April.....	195,000 00	53,917 50	248,917 50
May.....	200,000 00	42,255 00	242,255 00
June.....		40,355 00	40,355 00
July.....		12,750 00	12,750 00
August.....		31,835 00	31,835 00
September.....	32,600 00	58,320 00	90,920 00
October.....	67,500 00	49,967 50	117,467 50
November.....	50,000 00	35,255 00	85,255 00
December.....	67,000 00	40,355 00	107,355 00
Total.....	\$612,100 00	\$466,956 00	\$1,079,056 00

TABLE NO. 14.
COMPARATIVE SHOWING OF THE FOLLOWING ITEMS
FOR 18 YEARS.

	Year.	Rate of Levy in Mills.	Valuation.	Amount Levied for the General Funds.	Disbursements for Ordinary Expenses of City Government.	Total Dis- bursements for General Funds Including Interest.
1	1871.....	12 10-20	\$ 57,841,746 00	\$ 723,021 83	\$ 537,996 83	\$ 774,837 90
2	1872*.....	15 10-20	59,728,871 00	925,797 49	646,882 53	829,328 17
3	1873.....	15 13-20	60,144,682 00	1,082,114 27	892,555 84	1,542,676 91
4	1874.....	18 5-20	73,210,144 00	1,336,085 13	856,443 97	1,189,417 95
5	1875.....	18 15-20	73,305,277 00	1,374,473 94	887,078 26	1,506,997 63
6	1876.....	18 15-20	73,562,237 00	1,379,291 93	930,748 12	1,683,634 36
7	1877.....	17 17-20	71,296,122 00	1,272,635 74	888,488 29	1,464,329 13
8	1878.....	15 7-20	70,139,639 00	1,076,643 46	783,392 35	1,679,003 61
9	1879.....	15 1-20	70,548,104 00	1,061,748 96	732,200 44	1,343,770 81
10	1880.....	15 15-20	73,647,194 00	1,154,943 31	784,017 62	1,369,671 17
11	1881.....	14 1-20	79,586,156 00	1,118,185 49	811,651 03	1,377,121 12
12	1882.....	14 3-20	82,684,212 00	1,169,981 51	845,306 19	1,466,438 53
13	1883.....	15 15-20	84,490,060 00	1,330,718 45	909,301 80	1,605,567 72
14	1884.....	14 4-20	85,978,500 00	1,220,887 67	1,060,282 32	2,345,316 06
15	1885.....	14 7-20	88,285,845 00	1,266,901 88	1,127,577 30	2,306,586 66
16	1886.....	13 3-20	91,084,406 00	1,197,759 93	1,133,344 08	2,004,286 39
17	1887.....	16 3-10	93,628,410 00	1,512,098 82	1,282,704 24	2,564,738 34
18	1888.....	16 3-20	95,922,585 00	1,555,106 14	1,275,560 36	2,494,603 35

*Until April 1, 1872, the fiscal year ended on April 1, but during the year 1872, the law was

TABLE NO. 14.—*Continued.*

Interest on General Bonded Debt.	Total Par Value of all Sinking Funds December 31.	Total Amount of Bonds and City Notes Outstanding December 31.	Total Amount of Certified Estimates Outstanding December 31.	Amount of Overdrawn Balances December 31.	Total Indebtedness December 31.	
\$166,035 17	\$ 1,501,107 36	\$ 3,684,300 00	\$ 176,439 80	\$ 269,766 31	\$ 4,130,506 11	1
134,615 64	1,725,662 98	4,735,300 00	138,646 69	676,701 79	5,550,648 48	2
257,716 24	1,796,391 52	5,093,600 00	177,794 86	744,698 50	6,016,093 36	3
300,386 86	1,833,641 17	7,270,500 00	251,130 38	420,201 62	7,941,832 00	4
331,027 10	1,925,204 62	8,097,900 00	236,423 06	623,379 32	8,957,702 38	5
359,408 45	2,021,902 33	8,604,900 00	162,608 57	675,063 99	9,442,572 56	6
392,323 73	2,113,336 65	9,054,164 58	80,326 99	224,339 69	9,358,831 26	7
417,237 24	1,831,033 77	9,284,100 00	17,798 99	237,937 85	9,539,836 84	8
419,055 25	2,268,272 62	8,591,100 00	16,615 04	143,980 06	8,751,595 10	9
402,082 50	1,862,871 12	7,948,583 34	2,283 34	116,072 12	8,066,938 80	10
386,605 83	1,657,877 71	7,099,116 68	2,283 34	242,019 09	7,343,419 11	11
376,581 84	1,550,403 49	6,756,473 30	2,283 31	361,456 92	7,120,213 56	12
391,583 75	1,553,604 96	6,880,300 00	.....	171,061 62	7,051,361 62	13
388,193 50	1,644,182 34	7,273,800 00	.....	40,197 55	7,313,997 55	14
413,261 41	1,727,906 47	7,629,250 00	.....	144,179 30	7,774,179 30	15
429,500 00	1,733,724 35	8,035,330 00	.....	160,512 51	8,195,842 51	16
444,410 42	1,802,294 34	8,232,270 00	.....	151,973 54	8,384,243 54	17
467,080 00	1,887,496 50	8,349,800 00	.....	194,843 09	8,544,643 09	18

changed, making the fiscal year end December 31, hence the year 1872 contains but nine months.

TABLE No. 15.

ESTIMATES OF LEVIES IN THE TAX OF 1888 UPON THE
SEWER DISTRICTS, TO MEET THE EXPENSES
OF THE YEAR 1889.

DISTRICT No. 1.		
MAIN SEWER IN CASE AVENUE:		
Tax valuation of property, \$7,675,495 00. No debt.....		
Estimated cost of repairs in 1889.....	\$ 500 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 2,791 00
No levy in 1888.		
DISTRICT No. 2.		
MAIN SEWER IN PERRY STREET:		
Tax valuation of property, \$11,500,975 00. No debt.....		
Estimated cost of repairs in 1889.....	\$ 1,500 00	
Estimated deficit on January 1, 1889.....	2,046 42	
Levy in 1888 $\frac{1}{2}$ mill.....		\$ 5,750 48
DISTRICT No. 3.		
MAIN SEWERS IN SENECA, ONTARIO, ERIE AND MUIR- SON STREETS:		
Tax valuation of property, \$22,924,784 00. No debt.....		
Estimated cost of repairs in 1889.....	\$ 2,000 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 3,953 88
No levy in 1888.		
DISTRICT No. 4.		
MAIN SEWERS IN BRIDGE AND DETROIT STREETS:		
Tax valuation of property, \$4,007,095 00. No debt.....		
Estimated cost of repairs in 1889.....	\$ 1,000 00	
Estimated deficit on January 1, 1889.....	2,193 23	
Levy in 1888 1 mill.....		\$ 4,007 09

TABLE NO. 15.—*Continued.*

DISTRICT No. 5.		
MAIN SEWERS IN OAKLAND AND SWISS STREETS:		
Tax valuation of property, \$1,140,462. No floating debt.....		
Estimated cost of repairs in 1889.....	\$ 1,000 00	
Estimated deficit on January 1, 1889.....	4,317 64	
Estimated cost to district of new main sewer in Courtland St...	10,000 00	
Estimated cost to district of new main sewer in Waverly Ave..	3,000 00	
Estimated cost to dist. of proposed main sewer in Gordon Ave.	3,000 00	
Levy in 1888 3 mills.....		\$ 12,421 38
DISTRICT No. 6.		
MAIN SEWER IN BROADWAY:		
Tax valuation of property, \$453,384. No floating debt.....		
Estimated cost of repairs in 1889.....	\$ 50 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 1,360 10
No levy in 1888.		
DISTRICT No. 7.		
MAIN SEWER IN WILLSON AVENUE:		
Tax valuation of property, \$7,769,044. Floating debt, \$150,300.		
Estimated cost of repairs in 1889.....	\$ 1,500 00	
Estimated deficit on January 1, 1889.....	24,519 19	
Bonds due in 1889.....	29,600 00	
Interest payable in 1889.....	8,346 00	
Levy in 1888 3 mills.....		\$ 23,307 13
DISTRICT No. 8.		
MAIN SEWER IN MULBERRY STREET:		
Tax valuation of property, \$284,485. No bonded debt.....		
Estimated cost of repairs in 1889.....	\$ 200 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 130 84
Levy in 1888 1 mill.....		284 48

TABLE NO. 15.—*Continued.*

DISTRICT No. 9.		
MAIN SEWER IN MAIN AND FRONT STREETS:		
Tax valuation of property, \$7,717,272. No debt.....		
Estimated cost of repairs in 1889.....	\$ 2,000 00	
Estimated deficit on January 1, 1889.....	19 84	
Levy in 1888 $\frac{1}{4}$ mill.....		\$ 3,858 63
DISTRICT No. 10.		
MAIN SEWER IN CUYAHOGA AND UNIVERSITY STS :		
Tax valuation of property, \$516,530. No debt.....		
Estimated cost of repairs in 1889.....	\$ 200 00	
Estimated cost to district of new main sewer in Pelton Ave....	600 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 875 75
No levy.		
DISTRICT No. 11.		
MAIN SEWER IN SCRANTON AVE. AND WILLEY ST.:		
Tax valuation of property, \$1,772,108. Debt, \$11,000.....		
Estimated cost of repairs in 1889.....	\$ 200 00	
Bonds due in 1889.....	4,000 00	
Interest due in 1889.....	320 00	
Estimated deficit on January 1, 1889.....	7,601 05	
Levy in 1888 3 mills.		\$ 5,316 32
DISTRICT No. 12.		
MAIN SEWER IN PEARL STREET:		
Tax valuation of property, \$1,282,290. No debt		
Estimated repairs in 1889	\$ 300 00	
Estimated deficit on January 1, 1889.	3,020 14	
Levy in 1888 3 mills.....		\$ 3,846 87

TABLE NO. 15.—*Continued.*

DISTRICT No. 15.		
MAIN SEWERS IN E. MADISON AND EUCLID AVENUES:		
Tax valuation of property, \$1,329,990. Debt, \$100,000.....		
Estimated cost of repairs in 1889.....	\$ 1,000 00	
Bonds due in 1889.....	15,000 00	
Interest due in 1889 (estimated).....	5,000 00	
Estimated deficit on January 1, 1889.....		
Levy in 1888 3 mills.....		\$ 12,989 97
DISTRICT No. 16.		
MAIN SEWERS IN CLARK AVE. AND LORAIN STREET:		
Tax valuation of property, \$1,225,845. Debt, \$24,000.....		
Estimated cost of repairs in 1889.....	\$ 200 00	
Bonds due in 1889.....	6,000 00	
Interest due in 1889.....	900 00	
Estimated amount of cash on hand on January 1, 1889.....		\$ 3,824 61
Levy in 1888 3 mills.....		3,677 53
DISTRICT No. 17.		
MAIN SEWERS IN BROADWAY AND PETRIE STREET:		
Tax valuation of property, \$1,443,255. Debt, \$24,000.....		
Estimated cost of repairs in 1889.....	\$ 500 00	
Bonds due in 1889.....	2,000 00	
Interest due in 1889.....	1,100 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 2,833 18
Levy in 1888 3 mills.....		4,329 67
DISTRICT No. 18.		
PROPOSED MAIN SEWER IN BROADWAY, BETWEEN UNION STREET AND MILES AVENUE:		
Tax valuation of property, \$1,497,543. No debt.....		
Estimated cost to district of proposed sewer in Broadway, be- tween Union street and Miles avenue.....	\$ 13,000 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 4,438 71

TABLE NO. 15.—*Continued.*

COMMERCIAL ST. DISTRICT.		
MAIN SEWER IN CANAL AND COMMERCIAL STREETS:		
Tax valuation of property, \$228,405. No debt.....		
Estimated cost of repairs in 1889.....	\$ 200 00	
Estimated amount of cash on hand January 1, 1889.....		\$ 323 67
No levy.		

TABLE NO. 16.

LIST OF SPECIAL ASSESSMENTS LEVIED IN TAX OF 1888, IN ANTICIPATION OF IMPROVEMENT.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1888.	Amount Assessed.
			From	To			
108	Abbey St.....	Grading and Paving.....	Lorain St.....	284 feet east of Tracy St.....	3	3	\$ 3,742 93
108	".....	".....	".....	".....	1	1	189 10
440	Ackley Ave.....	" and Culverts.....	Broadway.....	Fleet St.....	1	1	12,461 72
401	Ansel Ave.....	" and Curbing.....	Doan St.....	Republic St.....	1	1	635 66
441	Arch St.....	Sewer.....	Croton St.....	Burwell St.....	1	1	288 44
328	Astor St.....	".....	Dunham Ave.....	Giddings Ave.....	2	1	1,663 32
350	Atwater St.....	Grading.....	Pratt St.....	Miles Ave.....	1	1	399 21
442	Auburn St.....	Sewer.....	Pearl St.....	Soranton Ave.....	1	1	1,596 20
443	".....	".....	Soranton Ave.....	Jennings Ave.....	1	1	1,412 10
444	".....	".....	Jennings Ave.....	Merchant Ave.....	1	1	631 40
480	Alum St.....	Sidewalk.....	".....	".....	1	1	117 00
480	Ansel Ave.....	".....	".....	".....	1	1	80 15
480	Ashland Ave.....	".....	".....	".....	1	1	120 90
480	Atlantic St.....	".....	".....	".....	1	1	2,095 59
318	Belden Ave.....	Sewer.....	Superior St.....	Payne Ave.....	1	1	3,194 07

REPORT OF THE CITY AUDITOR.

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Number of Installments of 1889.	Amount Assessed.
			From	To			
430	Birch St.....	Sewer	Detroit St.....	300 feet south.....	1	1	\$ 167 87
316	Bolton Ave.....	Grading and Paving.....	Euclid Ave.....	Cedar Ave.....	1	1	6,922 71
317	"	"	"	Hough Ave.....	1	1	3 445 97
437	"	"	Cedar Ave.....	Quincy St.....	1	1	1,965 94
175	Bond St.....	Re-paving	Superior St.....	Euclid Ave.....	1	1	415 98
177	Brayton St.....	Grading	Easterly end.....	Westerly end.....	1	1	64 42
256	Broadway	Grading and Re-paving.....	East line of Mead Ave.....	Center of Union St.....	2	2	14 231 35
259	"	Main Sewer.....	Union St.....	Miles Ave.....	5	2	3,285 91
414	Brooker Ave.....	Curbing.....	Cedar Ave.....	Quincy St.....	1	1	1,617 49
347	Brookfield.....	Grading and Curbing.....	Euclid Ave.....	Hough Ave.....	2	2	2,350 80
445	Buhrer Ave.....	Sewer	Scranton Ave.....	Jennings Ave.....	1	1	3,062 75
419	Burwell St.....	"	Case Ave.....	Wallingford Ct.....	1	1	725 82
446	"	"	Forest St.....	30 feet west of Arch St.....	1	1	566 20
460	Beech St.....	Sidewalk			1	1	31 20
460	Bridge St.....	"			1	1	49 92
460	Broadway St.....	"			1	1	1,118 81
460	Brooker Ave.....	"			1	1	339 95

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1888.	Amount Assessed.
			From	To			
460	Brownell St.....	Sidewalk			1	1	\$ 21 84
460	Burwell St.....	"			1	1	80 73
356	Cologne St.....	Grading and Paving of Gutters	Auburn St.....	La Moille St.....	1	1	315 00
432	Cuyahoga River.....	Dredging	Government Piers.....	West line of original lot No. 281.....	1	1	14,709 62
357	Croton St.....	Grading and Curbing.....	Jackson St.....	Case Ave.....	1	1	2,410 67
29	Cedar Ave.....	Sewer	Willson Ave.....	East Madison Ave.....	3	3	5,861 24
319	"	Grading and Paving.....	Perry St.....	Willson Ave.....	1	1	46,441 88
355	Cross St.....	"	Woodland Ave.....	Broadway	1	1	3,147 54
358	"Lark Ave.....	Sewer	Jennings Ave.....	Merchant Ave.....	1	1	752 94
353	Clifton St.....	"	Payne Ave.....	Kelley St.....	1	1	521 99
364	Crawford St.....	Grading and Curbing.....	Genesee Ave.....	Hough Ave.....	1	1	1,373 07
320	Cherry St.....	Sewer	Perry St.....	Liberal St.....	1	1	664 09
261	Case Ave.....	Grading, Paving, etc.	S. curb line of Payne Ave.....	L. S. & M. S. R. R. Track.....	5	2	7,620 28
2	Conrad St.....	Grading	Chestnut Ridge.....	Higgins St.....	1	1	116 84
28	Castle Ave.....	Sewer	Jennings Ave	Scranton Ave.....	1	1	116 58
172	Canfield St.....	Grading and Curbing.....	Davenport St.....	St. Clair St.....	1	1	123 03

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1898.	Amount Assessed.
			From	To			
33	Cornell St.....	Sewer.....	Euclid Ave.....	East line of City.....	1	1	\$ 86 69
34	Croton St.....	".....	Jackson St.....	Mayflower St.....	1	1	65 68
35	".....	".....	Forest St.....	".....	1	1	79 91
4	Cornell St.....	Curbing.....	Euclid Ave.....	Catawba St.....	1	1	69 20
387	Champlain St.....	Re-paving.....	South Water St.....	Northerly line of Canal St.....	1	1	1,168 60
384	Canal St.....	".....	S. line of Champlain St.....	South line of Michigan St.....	1	1	2,292 69
416	Case Ave.....	Sewer.....	Croton St.....	Woodland Ave.....	1	1	1,647 86
449	Canal St.....	".....	Champlain St.....	South line of Michigan St.....	1	1	1,612 78
447	Congress St.....	Grading and Curbing.....	North Woodland Ave.....	160 feet north of Remington.....	1	1	458 44
450	Clark Ave.....	Sewer.....	Pearl St.....	Scranton Ave.....	1	1	518 82
284	Corwin Ave.....	Grading and Paving.....	Woodland Ave.....	Holton Ave.....	1	1	87 83
448	Cedar Ave.....	Main Sewer.....	Fairmount St.....	Dean St.....	3	1	634 56
379	".....	Sewer.....	East Madison Ave.....	".....	3	1	5,721 76
460	Center St.....	Sidewalks.....	".....	".....	1	1	310 44
460	Central Way.....	".....	".....	".....	1	1	280 00
460	Chestnut Ridge.....	".....	".....	".....	1	1	791 94
460	Clark Ave.....	".....	".....	".....	1	1	191 10

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1889.	Amount Assessed.
			From	To			
460	Conrad St.....	Sidewalks			1	1	\$ 219 64
460	Cedar Ave.....	"			1	1	182 42
460	Canal St.....	"			1	1	281 58
460	Crawford Road.....	"			1	1	494 38
170	Davies St.....	Paving	Broadway	N.Y., P. & O. R. R. right of way	3	3	4,278 43
9	Dodge St.....	Grading	Lake St.	Superior St.	1	1	102 06
323	Doan St.....	"	Euclid Ave.	Ansel Ave.	1	1	837 90
322	Dodge St.....	" and Curbing	"	Superior St.	1	1	1,561 02
37	Dare St.....	Sewer	Lorain St.	Bridge	1	1	208 47
39	Dibble Ave.....	"	Wilson Ave.	Norwood St.	1	1	945 23
417	"	Curbing	"	"	1	1	1,002 20
460	Detroit St.....	Sidewalk			1	1	163 02
460	Doloff St.....	"			1	1	1,537 38
324	Emmet St.....	Grading and Draining	Marquadt St.	Alley	1	1	163 35
268	East Madison Ave.....	Main sewer	Euclid Ave.	Woodland Ave.	4	2	4,492 08
13	Elton St.....	Grading	Chestnut Ridge	City limits	1	1	76 87

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Amount Assessed.
			From	To		
14	Euclid Ave.....	Grading and Repaving.....	Fairmount St.....	East limits of City.....	1	\$ 442 31
389	East Madison Ave.....	Main sewer.....	Lena Ave.....	Lake Erie.....	1	26,092 91
410	Ellsworth St.....	Opening.....	Lundy St.....	C. & P. R. R. Co.....	1	1,105 50
164	Euclid Ave.....	Repaving.....	Case Ave.....	Willson Ave.....	1	301 22
460	Elton St.....	Sidewalk.....	.....	.....	1	341 25
460	Edwards St.....	".....	.....	.....	1	338 83
460	Euclid Ave.....	".....	.....	.....	1	790 17
16	Fairmount St.....	Grading and Repaving.....	Euclid Ave.....	East line of Baldwin.....	4	5,457 16
400	Finney St.....	".....	Hooker St.....	250 feet west of Valley St.....	1	259 26
241	Fairmount St.....	" and Planking.....	Baldwin St.....	City limits.....	1	614 97
438	First Ave.....	Sewer.....	Garden St.....	Quincy St.....	1	1,538 24
460	Fairmount St.....	Sidewalk.....	.....	.....	1	1,099 41
460	First Ave.....	".....	.....	.....	1	290 80
460	Franklin Ave.....	".....	.....	.....	1	103 23
325	Gordon Ave.....	Main Sewer.....	Lorain St.....	Bridge St.....	1	5,092 71
359	Greenwood St.....	Grading.....	Garden St.....	Sibley St.....	1	658 57

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1888.	Amount Assessed.
			From	To			
328	Grant St.....	Sewer	Cedar Ave.	Garden St.....	1	1	1,053 92
327	Genesee Ave.....	Paving	Euclid Ave.....	Hough Ave.....	2	1	5,757 49
271	Grand Ave.....	Opening	E. line W. H. Beaumont's lot	East Madison Ave.....	1	1	2,107 68
452	Grove St.....	Sewer.....	Croton St.....	Orange St.....	1	1	448 80
451	Giddings Ave.....	"	Wade Park Ave.....	Astor Ave.....	1	1	2,101 84
460	Gauge St.....	Sidewalk	"	"	1	1	214 50
460	Garden St.....	"	"	"	1	1	270 68
460	Geneva St.....	"	"	"	1	1	127 40
460	Grand Ave.....	"	"	"	1	1	867 62
460	Glendale Ave.....	"	"	"	1	1	56 20
330	Heisley St.....	Grading	Tod St.....	Weimer St.....	1	1	299 27
335	Holmden Ave.....	Sewer	Scranton Ave.....	Jennings Ave.....	1	1	3,190 40
100	Harvard St.....	Grading and Curbing	Broadway	Woodland Hills Ave.....	1	1	947 13
95	Hill St.....	Paving	Harrison St.....	East line of Commercial St.....	1	1	1,742 84
418	Higgins St.....	Grading	Lorain St.....	Clark Ave.....	1	1	361 77
408	Hunting St.....	"	Independence St.....	Northerly terminus.....	1	1	944 47

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1888.	Amount Assessed.
			From	To			
44	Hurd St.....	Sewer.....	Lorain St.....	Bridge St.....	1	1	376 80
428	Harbor St.....	Grading and Curbing.....	Franklin Ave.....	Lorain St.....	1	1	1,989 52
396	Holmden Ave.....	Sewer.....	Seranton Ave.....	Pearl St.....	1	1	433 30
421	Halsey St.....	"	Cedar Ave.....	530 feet southerly	3	1	329 43
425	Hough Ave.....	Grading and Curbing.....	East Madison Ave.....	East line of Holt St.....	1	1	2,900 86
460	Hague St.....	Sidewalk			1	1	245 05
460	Haight St.....	"			1	1	9 36
460	Hamburg St.....	"			1	1	832 65
460	Harbor St.....	"			1	1	61 74
460	Halsey St.....	"			1	1	62 69
460	Hamm St.....	"			1	1	42 25
460	Harkness Ave.....	"			1	1	132 60
460	Harmon St.....	"			1	1	28 40
460	Hinde St.....	"			1	1	169 95
460	Hough Ave.....	"			1	1	822 93
460	Humboldt St.....	"			1	1	23 40
453	Hough Ave.....	Sewer.....	Bolton Ave.....	500 feet east of Holt St.....	1	1	3,469 96

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Instalments of 1888.	Amount Assessed.
			From	To			
150	Iona St.....	Cinderling and Improving.....	Clark Ave.....	Storer Ave.....	1	1	\$ 353 00
277	Independence St.....	Paving	Broadway	400 feet South of Holly St.....	1	1	17,760 09
279	Jessie St.....	Sewer.....	Cedar Ave.....	Garden St.....	3	3	974 84
460	Jefferson St.....	Sidewalk .....	.....	.....	1	1	152 10
460	Junction St.....	" .....	.....	.....	1	1	83 20
460	Jackson St.....	" .....	.....	.....	1	1	93 60
360	Keyes St.....	Grading and Curbing	Edwards St.....	East Madison Ave.....	1	1	466 39
391	Kirland St.....	Sewer.....	Lake St.....	Lake Erie.....	1	1	1,122 72
48	"	"	Superior St.....	Payne Ave.....	1	1	94 88
386	King St.....	Curbing.....	Lawrence St.....	Wason St.....	1	1	747 00
460	Kentucky St.....	Sidewalk .....	.....	.....	1	1	40 17
49	Lorain St.....	Sewer.....	Gelb St.....	A point 1,800 feet Westerly.....	3	3	2,069 81
295	"	Repaving.....	Waverly St.....	Chestnut Ridge.....	2	2	6,699 18
417	" .....	" .....	.....	.....	1	1	1,420 92
361	Linwood St.....	Sewer.....	East Madison Ave.....	Genesee Ave	1	1	321 59
141	Lexington Ave.....	Grading and Curbing	Willson Ave.....	Dunham Ave.....	1	1	

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments of 1889.	Amount Assessed.
			From	To		
385	Lena Ave.....	Sewer.....	Willson Ave.....	Norwood St.....	1	\$ 2,390 25
424	Linden St.....	Grading and Curbing	Scovill Ave.....	Woodland Ave.....	1	796 53
423	Lincoln Ave.....	Sewer.....	Cedar Ave.....	Quincy St.....	3	1,796 41
454	Lake St.....	"	Wason St.....	Case Ave.....	1	1,751 01
459	"	Grading and Curbing	Erie St.....	Alabama St.....	1	4,030 90
460	Literary St	Sidewalk			1	53 00
460	Lorain St.....	"			1	610 74
460	Lake St.....	"			1	68 64
460	Linwood St.....	"			1	109 20
460	Lodge Ave.....	"			1	241 80
460	Lincoln Ave.....	"			1	1,177 83
362	Merchant Ave.....	Sewer.....	Willey St.....	Auburn St.....	1	2,456 44
334	Margaret St.....	"	Kirtland St.....	Willson Ave.....	1	1,694 53
363	Mayfield St.....	Grading.....	Euclid Ave.....	City limits.....	1	508 43
139	Merchant Ave.....	Curbing.....	Auburn St.....	Cliff St.....	1	119 90
397	"	Sewer.....	Willey St.....	"	2	1,772 57

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Instalments of 1888.	Amount Assessed.
			From	To			
51	McLan St.....	Sewer.....	Monroe St.....	Chatham St.....	1	1	\$ 171 11
455	Morse Ave.....	Graveling.....	Euclid Ave.....	East Prospect St.....	1	1	504 64
332	Mayfield St.....	Sewer.....	"	City limits.....	1	1	1,632 32
460	Main St.....	Sidewalk.....	"	"	1	1	104 52
460	Myrtle Ct.....	"	"	"	1	1	23 40
400	Muirson St.....	"	"	"	1	1	102 96
460	Newark St.....	"	"	"	1	1	566 80
244	Ohio St.....	Paving.....	Erie St.....	West line of Ontario St.....	4	3	4,372 72
244	"	"	"	" "	2	1	378 49
398	Ontario St.....	Repaving	Lake St.....	St. Clair St.....	1	1	5,806 96
456	Oakdale St.....	Sewer.....	Quincy St.....	Cedar Ave.....	3	1	1,656 03
457	Orange St.....	"	Forest St.....	Case Ave.....	1	1	1,960 87
426	Ontario St.....	Repaving	Monumental Square.....	Eagle St.....	1	1	21,705 96
289	Outwaite St.....	Sewer.....	Willson Ave.....	A point 650 feet Westarly.....	1	1	193 41
460	Oakdale St.....	Sidewalk.....	"	"	1	1	530 40
460	Orange St.....	"	"	"	1	1	111 62

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments of 1888.	Amount Assessed.
			From	To		
460	Oregon St.....	Sidewalk			1	\$ 42 90
294	Pelton Ave.....	Main Sewer.....	Cliff St.....	Starkweather Ave.....	3	2,175 79
129	Pittsburg St.....	Paving	Liberal St.....	East line of Jackson St.....	3	1,702 27
334	Perry St.....	Repaving.....	Cedar Ave.....	Woodland Ave.....	1	10,270 38
333	"	"	Euclid Ave.....	Prospect St.....	1	2,452 80
335	"	"	Prospect St.....	Cedar Ave.....	1	3,851 61
131	Payne Ave	Grading	Perry St.....	Sterling Ave.....	1	119 94
56	Perkins Ave.....	Sewer.....	Sterling Ave.....	East line of Bingham Allotment.....	1	390 50
130	"	Grading and Curbing.....	Cass Ave.....	Willson Ave.....	1	842 93
376	Portland St.....	Grading	Kennard St.....	"	1	653 50
366	Petrie St.....	"	Fleet St.....	Petrie St. bridge.....	1	2,630 96
453	Professor St.....	Sewer	Pelton Ave.....	Starkweather Ave.....	3	2,057 39
460	Pear St.....	Sidewalk			1	84 50
460	Pearl St.....	"			1	427 85
460	Professor St.....	"			1	25 74
460	Purdy St.....	"			1	39 00

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Installments of 1888.	Amount Assessed.
			From	To			
460	Petrie St.....	Sidewalk			1	1	\$ 2,933 55
460	Perry St.....	"			1	1	28 86
368	Reservoir St.....	Grading.....	Kentucky St.....	Westerly.....	1	1	392 56
337	Rossiter St.....	Grading and Draining	St. Clair St.....	Superior St.....	1	1	109 16
125	Rawlings Ave.....	Grading.....	East Madison Ave.....	C. & P. crossing.....	1	1	135 07
336	Ruglee St.....	"	Miles Ave.....	Pratt St.....	1	1	222 18
460	Ravine St.....	Sidewalk			1	1	178 10
460	Root St.....	"			1	1	123 11
460	Richland Ave.....	"			1	1	93 60
460	Rossiter St.....	"			1	1	253 70
369	Slater Ave.....	Sewer.....	Woodland Ave.....	Outhwaite St.....	1	1	524 48
61	Streator Ave.....	"	Euclid Ave.....	Cedar Ave.....	1	1	270 53
399	South Bell Ave.....	"	Cedar Ave.....	1,650 feet southerly	1	1	4,330 66
340	Sterling Ave.....	Grading and Curbing.....	Euclid Ave.....	Hamilton St.....	1	1	3,564 00.
342	St. Clair St.....	Damages.....	Wilson Ave.....	East Madison Ave.....	1	1	1,360 25
123	"	Repaving	Erie St.....	East line of Canfield St.....	1	1	889 60

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments of 1888.	Amount Assessed.
			From	To		
118	Sheriff St.....	Paving.....	Huron St.....	Bolivar St.....	1	\$ 267 34
120	"	"	Prospect St.....	Huron St.....	1	1,130 48
116	"	(Grading (damages)).....	"	"	1	266 37
370	Sherbrook St.....	Grading and Curbing.....	Superior St.....	North End	1	385 88
122	St. Clair St.....	Repaving	Canfield St.....	Willson Ave.....	1	2,318 87
338	Sibley St.....	Grading and Paving.....	Hayward St.....	Case Ave.....	1	8,643 18
390	Shirley St.....	Grading.....	Sykora St.....	Nuss St.....	1	277 79
377	St. Clair St.....	Grading and Curbing.....	East Madison Ave.....	Becker St.....	2	1,588 37
341	Sonora St.....	Grading.....	Sterling Ave.....	Lawrence St.....	1	147 56
339	St. on n. s. Sterling Pl.	"	Waring St.....	Rossiter St.....	1	99 96
403	" s. s. "	"	"	"	1	142 80
169	State St.....	Drainage and Curbing.....	Franklin Ave.....	Detroit St.....	1	454 01
405	Sterling Ave.....	Grading and Curbing.....	Prospect St.....	Scovill Ave.....	1	1,742 83
460	Seranton Ave.....	Sidewalk.....			1	156 00
460	Scott St.....	"			1	83 85
460	Selden St.....	"			1	45 50
460	Scovill Ave.....	"			1	120 90

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments	Installments of 1888.	Amount Assessed.
			From	To			
460	Sheriff St.....	Sidewalk.....			1	1	\$ 26 52
460	Sibley St.....	".....			1	1	31 20
460	Spring St.....	".....			1	1	197 41
460	Superior St.....	".....			1	1	183 80
460	St. Clair St.....	".....			1	1	400 53
111	Townsend St.....	Grading and Curbing.....	East Madison Ave.....	Edwards St.....	1	1	97 44
373	Trumbull St.....	Opening.....	Forest St.....	Davies St.....	1	1	18,408 00
460	Taylor St.....	Sidewalk.....			1	1	28 40
460	Townsend St.....	".....			1	1	90 13
460	Tilden St.....	".....			1	1	7 80
470	Union St.....	Cinderling and Culverts.....	Broadway.....	Woodland Hills Ave.....	1	1	8,614 77
371	Vermont St.....	Grading, Paving, etc.....	Hanover St.....	Pearl St.....	1	1	1,331 67
415	".....	Sewer.....	".....	".....	1	1	640 39
422	Vienna St.....	".....	Cedar Ave.....	A point 1650 feet southerly.....	1	1	1,212 71
460	Vincent St.....	Sidewalk.....			1	1	141 90

TABLE NO. 16.—Continued.

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments.	Amount Assessed.
			From	To		
375	Worthington St.....	Grading.....	Cliff St.....	End of Street.....	1 1	\$ 106 40
159	Waverly Ave.....	Curbing.....	Franklin Ave.....	Bridge St.....	1 1	45 48
374	Willey St.....	Sewer.....	Merchants Ave.....	Pelton Ave.....	1 1	755 68
343	Weimer St.....	Grading and Draining.....	Kenyon St.....	Fleet St.....	1 1	1,922 84
431	Watkins Ave.....	Curbing.....	Cedar Ave.....	East Prospect St.....	1 1	285 73
62	Waring St.....	Sewer.....	Payne Ave.....	Perkins Ave.....	1 1	907 21
420	Wallingford Court.....	".....	Burwell St.....	Woodland Ave.....	1 1	796 52
427	Willcutt Ave.....	".....	Woodland Ave.....	Beaver St.....	1 1	858 90
402	Waring St.....	Grading.....	St. Clair St.....	Superior St.....	1 1	97 79
460	Waverly Ave.....	Sidewalk.....			1 1	28 40
460	Washington St.....	".....			1 1	159 12
460	West Madison Ave.....	".....			1 1	109 20
439	Woodland Ave.....	Sewer.....	East Madison Ave.....	Woodland Hills Ave.....	2 1	8,348 31
460	Wallingford Court.....	Sidewalk.....			1 1	301 53
460	Walnut St.....	".....			1 1	85 88

TABLE No. 16.—*Concluded.*

G. R.	Name of Street.	Nature of Improvement.	Limits of Improvement.		Number of Installments	Installments of 1888.	Amount Assessed.
			From	To			
460	Waring St.....	Sidewalk.....	.....	.....	1	1	286 00
480	Wason St.....	" .....	.....	.....	1	1	713 31
480	White Ave.....	" .....	.....	.....	1	1	\$ 375 83
480	Willson Ave.....	" .....	.....	.....	1	1	1,630 20
480	Woodland Ave.....	" .....	.....	.....	1	1	946 69
Total .....		.....	.....	.....	.....	.....	\$464,330 47

TABLE NO. 17.
AMOUNT OF TAXES LEVIED IN EACH MAIN SEWER
DISTRICT.

Number of District.	Value of Real Property.	Value of Personal Property.	Value of Mixed Property. (R. R.)	Total Valuation.	Rate of Levy.	Total Amount of Tax.
2	\$ 9,452,275	\$ 2,084,754	\$ 80,020	\$ 11,617,049	½ Mill.....	\$ 5,808 524
4	3,364,750	746,925	.....	4,111,675	1 "	4,111 675
5	3,634,231	805,510	13,235	4,452,976	3 "	13,358 928
7	6,542,755	1,394,955	81,355	8,019,065	3 "	24,067 195
8	264,325	87,520	9,855	361,700	1 "	361 700
9	4,923,560	5,337,994	294,960	10,556,504	½ "	5,278 252
11	1,457,700	256,530	23,265	1,737,495	3 "	5,212 485
12	1,125,635	223,760	15,005	1,364,400	3 "	4,093 200
15	3,784,850	792,816	58,320	4,635,986	3 "	13,907 958
16	1,144,575	69,125	60,735	1,274,435	3 "	3,823 305
17	1,306,880	285,800	7,710	1,600,390	3 "	4,801 170
18	1,123,974	179,657	76,585	1,385,216	3 "	4,155 648
	\$ 38,130,510	\$ 12,265,346	\$ 721,035	\$ 51,116,891	.....	\$ 88,970 040

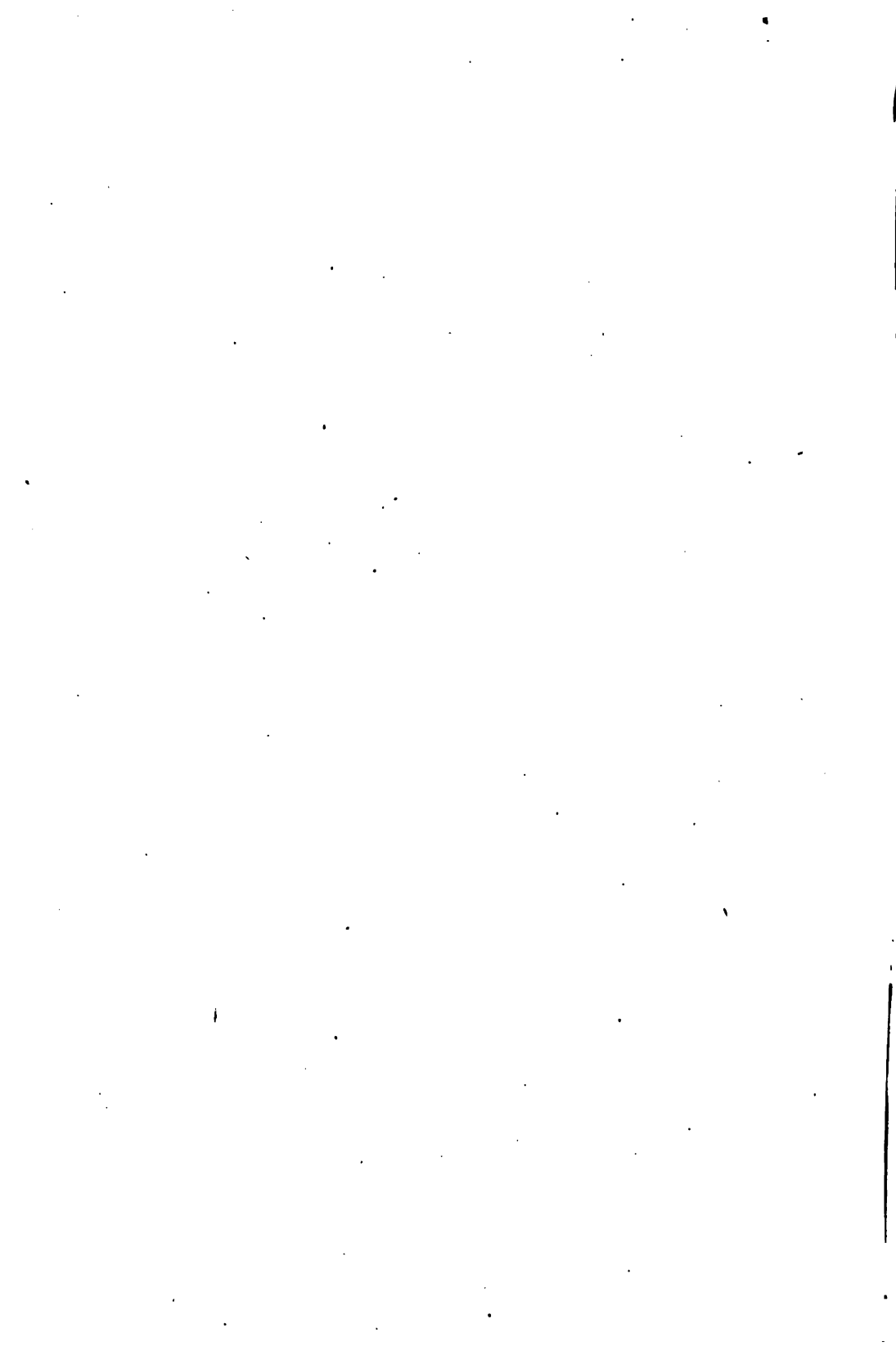
TABLE NO. 18.
RESULTS IN 1888.

Net decrease of ordinary expenses paid from the general funds, except interest and General Sinking Funds, compared with those of 1887.....	\$ 7,173 88
Interest on general debt paid in 1888.....	467,060 00
Principal of general debt paid in 1888.....	219,000 00
Interest on special debt paid in 1888.....	22,554 00
Principal of special debt paid in 1888.....	117,800 00
Increase of taxable valuation of 1888 over that of 1887.....	2,294,175 00
Net increase in total par value of all Sinking Funds.....	85,202 16
Total par value of all Sinking Funds, January 1, 1889.....	1,887,496 50
Net increase of city debt of all kinds in 1888.....	160,399 55
Sums paid in 1888 for permanent improvements. See tables No. 1 and 2:	
From Infirmary Fund.....	33,752 27
From Water Works Fund.....	354,730 65
For repaving streets.....	148,884 32
Total paid for permanent improvements in 1888.....	\$ 537,367 24

Respectfully submitted,

JAY L. ATHEY,

City Auditor.



Sinking Fund Commissioners' Report.

REPORT OF THE

Sinking Fund Commissioners.

To the Honorable City Council of Cleveland :

GENTLEMEN :—The Sinking Fund Commissioners, in compliance with law, submit their report for the year 1888 :

SINKING FUND OF 1862.

TWENTY-SEVENTH ANNUAL REPORT.

The gross income for the year is.....	\$60,024 49
The expense for the year is.....	650 00
Leaving the net income.....	\$59,374 49

CASH RECEIPTS.

1888.

January	1—Cash on hand as per report.....	\$ 6,049 27
February	21—Semi-annual dividend on \$230,000 stock L. S. & M. S. Railway @ 2%...	4,600 00
March	1—Semi-annual interest on \$637,000 Cleveland City 6% bonds.....	19,110 00
April	1—Semi-annual interest on \$110,000 Cleveland City 5% bonds.....	2,750 00
April	1—Semi-annual interest on \$25,000 Cleveland City 4% bonds.....	500 00
July	1—Semi-annual interest on \$94,000 C. & A. Bridge Co. 4% bonds.....	2,820 00
July	1—Interest on deposits.....	188 48

August	16—Semi-annual dividend \$230,000 stock L. S. & M. S. R'y @ 2%.....	\$ 4.60
September	1—Semi-annual interest on \$637,000 Cleveland City 6% bonds.....	19,110 00
October	1—Semi-annual interest on \$110,000 Cleveland City 5% bonds.....	2,750 00
October	1—Semi-annual interest on \$25,000 Cleveland City 4% bonds.....	500 00
October	1—Sale 300 shares stock L. S. & M. S. Railway Co.....	30,562 50
November	20—Interest on deposits.....	120 82
1889.		
January	1—Interest on deposits.....	172 17
January	1—Semi-annual interest on \$94,000 C. & A. Bridge Co. 6% bonds.....	2,820 00
Total.....		\$96,653 24

CASH DISBURSEMENTS.

1888.

January	12—	Payment into City Treasury upon certificate of City Auditor.....	\$ 3,489 55
January	27—	" " " " " " " "	527 74
March	31—	" " " " " " " "	166 19
May	22—	" " " " " " " "	1,138 56
June	21—	" " " " " " " "	4,444 51
August	4—	" " " " " " " "	6,660 99
September	1—	" " " " " " " "	6,235 86
September	25—	" " " " " " " "	6,265 27
September	25—	" " " " " " " "	5,000 00
October	20—	" " " " " " " "	10,000 00
October	20—	" " " " " " " "	6,400 87
November	20—	" " " " " " " "	13,698 56
November	20—	" " " " " " " "	10,500 00
December	4—	" " " " " " " "	388 85
December	18—	" " " " " " " "	13,277 14
December	18—	" " " " " " " "	2,264 63
Express charges on coupons to New York, for the year.....			16 98
Expenses for the year.....			650 00

1889.

January	1—	Cash on deposit.	5,527 54
Total.....			<u>\$96,553 24</u>

The following items constitute the assets of the Sinking Fund of 1862, January 1, 1889:

2,000 shares capital stock L. S. & M. S. Railway, par value.....	\$ 200,000 00
Cleveland City six per cent. bonds, par value.....	637,000 00
Cleveland City five per cent. bonds, par value.....	110,000 00
Cleveland City four per cent. bonds, par value.....	25,000 00
Chicago & Atohison Bridge Co. six per cent. bonds, par value.....	94,000 00
Cash on deposit.....	5,327 54
Total assets.....	\$1,071,527 54

The payments into the City Treasury for the year upon the Certificates of the City Auditor, are for the following purposes :

City's proportion of cost of repaving streets	\$51,681 58
Construction of Seneca street bridge.....	38,777 14
Total.....	\$90,458 72

The liabilities of the City that have been paid from the Sinking Fund of 1862 are:

Cleveland City Water Works bonds.....	\$ 925,000 00
Other Cleveland City bonds and debts.....	487,993 75
City's proportion of repaving streets.....	572,279 08
Appropriation for fire boat.....	29,000 00
Construction of Seneca street bridge.....	38,777 14
Total payments.....	\$2,053,019 97

VIADUCT SINKING FUND.

TENTH ANNUAL REPORT.

The income for the year is.....\$45,228 35

CASH RECEIPTS.

1888.

January	1—Cash on hand as per report.....	\$ 1,861 45
March	1—Semi-annual interest on \$145,000 Cleveland City 6% bonds.....	4,350 00
April	1—Semi-annual interest on \$20,000 Cleveland City 4% bonds.....	500 00
April	1—Semi-annual dividend on \$100,000 stock K., A. & G. R. R. @ 3%.....	3,000 00
April	15—Semi-annual interest on \$1,500 Cleveland City 5% bonds.....	37 50
May	22—Received of City Treasurer.....	28,957 96
June	1—Semi-annual interest on \$25,000 Cin. & Ind. railroad 7% bonds.....	875 00
June	1—Semi-annual interest on \$75,000 Cleveland City 4% bonds.....	1,500 00
June	15—Semi-annual interest on \$331,000 Valley Railway 7% bonds.....	11,535 00
July	1—Interest on deposits.....	125 39
September	1—Semi-annual interest on \$145,000 Cleveland City 6% bonds.....	4,350 00
September	1—For Cleveland City Park bonds, matured.....	7,000 00
September	25—Received of City Treasurer.....	19,501 07
October	1—Semi-annual interest on \$20,000 Cleveland City 5% bonds.....	500 00
October	1—Semi-annual dividend on \$100,000 stock K., A. & G. R. R. @ 3%.....	3,000 00
October	15—Semi-annual interest on \$1,500 Cleveland City 5% bonds.....	37 50
December	1—Semi-annual interest on \$25,000 Cin. & Ind. Ry 7% bonds.....	875 00
December	1—Semi-annual interest on \$75,000 Cleveland City 4% bonds.....	1,500 00
December	1—Semi-annual interest on \$86,000 Cleveland City 5% bonds.....	2,150 00
December	15—Semi-annual interest on \$331,000 Valley Railway 7% bonds.....	11,585 00

1889.

January	1—Interest on deposits.....	9 82
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Total.....\$108,300 69

CASH DISBURSEMENTS.

1888.

July	1—For \$52,000 Cleveland City 5% bonds at par and accrued interest.....	\$ 52,216 67
September	1—For \$12,000 Cleveland City 5% bonds at par and accrued interest.....	12,150 00
September 25—	For \$22,000 Cleveland City 5% bonds at par and accrued interest.....	22,352 60
December 17—	For \$10,000 Cleveland City 5% bonds at par and accrued interest.....	10,023 29
	Express charges on coupons to New York, for the year.....	9 30

1889.

January	1—Cash on deposit.....	6,548 83
Total.....		\$103,300 69

The following items constitute the Viaduct Sinking Fund January 1, 1889:

Cleveland City six per cent. bonds par value.....	\$138,000 00
Cleveland City five per cent. bonds par value.....	117,500 00
Cleveland City four per cent. bonds par value.....	75,000 00
Cincinnati & Indiana Railroad seven per cent. bonds par value.....	25,000 00
Valley Railway seven per cent. bonds par value.....	331,000 00
1,000 shares stock Kalamazoo, Alligan & Grand Rapids railroad par value.....	100,000 00
Cash on deposit.....	6,548 83
Total assets.....	\$793,048 83

GENERAL SINKING FUND.

TENTH ANNUAL REPORT.

The income for the year is.....\$1,512 23

CASH RECEIPTS.

1888.

January	1—Cash on hand as per report.....	\$ 883 62
May	22—Received of City Treasurer.....	143,587 66
July	1—Interest on deposits.....	8 68
September	3—Interest on deposits.....	1,168 20
September 25—	Received of City Treasurer.....	95,936 62
November 28—	Interest on deposits.....	213 33

1889.

January	1—Interest on deposits.....	122 02
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Total.....\$241,920 13

CASH DISBURSEMENTS.

1888.

September	1—Payment into City Treasury upon certificate of City Auditor.....	\$144,000 00
September 25—	Payment into City Treasury upon certificate of City Auditor.....	35,000 00
November 28—	Payment into City Treasury upon certificate of City Auditor.....	40,000 00

1889.

January	1—Cash on deposit.....	\$ 22,920 13
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Total.....\$241,920 13

The assets of the General Sinking Fund consist of

Cash on deposit January 1, 1889.....\$ 22,920 13

H. B. PAYNE,	}	<i>Sinking Fund Commissioners.</i>
W. BINGHAM,		
CHARLES HICKOX,		
J. H. WADE,		
S. T. EVERETT,		

CLEVELAND, O., January 4th, 1889.

I hereby certify that the account contained in the foregoing statement, between the City of Cleveland and the Sinking Fund Commissioners, is correct and complete.

JAY L. ATHEY,
City Auditor.

City Treasurer's Report.

Report of the City Treasurer.

CLEVELAND, OHIO, February 11th, 1889.

To the Honorable Common Council:

GENTLEMEN:—Herewith I beg to submit detailed statements of the receipts and disbursements of the various funds of the city, from January 1st, 1888, to January 1st, 1889, as shown by the books of the several persons acting as City Treasurer during that period. This report will be embraced in four sub-divisions, as follows: First, showing report of receipts and disbursements from January 1st, 1888, to October 22d, 1888, inclusive, as appears by the books of Thomas Axworthy, Treasurer during that period. Second, showing report of receipts and disbursements from October 23d, 1888, to November 27th, 1888, inclusive, as appears by the books of Kaufman Hays, Acting Treasurer during that period. Third, showing report of receipts and disbursements from November 28th, 1888 (the day upon which the duties of the office were assumed by me), to December 31st, 1888, inclusive. Fourth, showing the receipt and disposition of certain money known and referred to as belonging to the "Axworthy Fund," which was placed in my possession by Messrs. B. D. Babcock and J. L. Athey, respectively Mayor and Auditor of the City, for disbursement under the order and direction of the Honorable Board of Revision of the City of Cleveland.

Respectfully submitted,

E. H. BOURNE,

City Treasurer.

First Sub-Division of Report.

DR.

ATLANTIC STREET GRADING.			
Balance January 1, 1888.....	\$ 14 41		
Disbursements.....		\$ 50 00	
Overdrawn.....			\$ 35 59
ACADEMY STREET GRADING.			
Overdrawn January 1, 1888.....			461 58
ABBEY STREET GRADING.			
Overdrawn January 1, 1888.....	2,907 40		
Disbursements.....	5,490 43	8,397 83	
Receipts.....		8,358 85	
Overdrawn.....			38 98
BRAYTON STREET GRADING.			
Overdrawn January 1, 1888.....	54 35		
Disbursements.....		3 90	
Overdrawn.....			58 25
BOND STREET REPAVING.			
Overdrawn January 1, 1888.....	399 70		
Disbursements.....		4 05	
Overdrawn.....			403 75
BROADWAY REPAVING.			
900 feet South of Independence to Meade.			
Balance January 1, 1888.....	336 97		
Receipts.....	1,205 23	1,542 20	
Disbursements.....		1,799 79	
Overdrawn.....			257 59
BECKWITH STREET IMPROVEMENTS.			
Overdrawn January 1, 1888.....			1,042 18

CASH DISBURSEMENTS.

1888.

July	1—For \$52,000 Cleveland City 5% bonds at par and accrued interest.....	\$ 52,216 67
September	1—For \$12,000 Cleveland City 5% bonds at par and accrued interest.....	12,150 00
September	25—For \$22,000 Cleveland City 5% bonds at par and accrued interest.....	22,352 60
December	17—For \$10,000 Cleveland City 5% bonds at par and accrued interest.....	10,023 29
	Express charges on coupons to New York, for the year.....	9 30

1889.

January	1—Cash on deposit.....	6,548 83
Total.....		\$103,300 69

The following items constitute the Viaduct Sinking Fund January 1, 1889:

Cleveland City six per cent. bonds par value.....	\$138,000 00
Cleveland City five per cent. bonds par value.....	117,500 00
Cleveland City four per cent. bonds par value.....	75,000 00
Cincinnati & Indiana Railroad seven per cent. bonds par value.....	25,000 00
Valley Railway seven per cent. bonds par value.....	331,000 00
1,000 shares stock Kalamazoo, Allegan & Grand Rapids railroad par value.....	100,000 00
Cash on deposit.....	6,548 83
Total assets.....	\$793,048 83

GENERAL SINKING FUND.

TENTH ANNUAL REPORT.

The income for the year is.....\$1,512 23

CASH RECEIPTS.

1888.

January	1—Cash on hand as per report.....	\$ 883 62
May	22—Received of City Treasurer.....	143,587 66
July	1—Interest on deposits.....	8 68
September	3—Interest on deposits.....	1,168 20
September	25—Received of City Treasurer.....	95,936 62
November	28—Interest on deposits.....	213 33

1889.

January	1—Interest on deposits.....	122 02
---------	-----------------------------	--------

Total.....\$241,920 13

CASH DISBURSEMENTS.

1888.

September	1—Payment into City Treasury upon certificate of City Auditor.....	\$144,000 00
September	25—Payment into City Treasury upon certificate of City Auditor.....	35,000 00
November	28—Payment into City Treasury upon certificate of City Auditor.....	40,000 00

1889.

January	1—Cash on deposit.....	\$ 22,920 13
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Total.....\$241,920 13

The assets of the General Sinking Fund consist of

Cash on deposit January 1, 1889.....\$ 22,920 13

H. B. PAYNE,	}	<i>Sinking Fund Commissioners.</i>
W. BINGHAM,		
CHARLES HICKOX,		
J. H. WADE,		
S. T. EVERETT,		

CLEVELAND, O., January 4th, 1889.

I hereby certify that the account contained in the foregoing statement, between the City of Cleveland and the Sinking Fund Commissioners, is correct and complete.

JAY L. ATHEY,
City Auditor.

City Treasurer's Report.

Report of the City Treasurer.

CLEVELAND, OHIO, February 11th, 1889.

To the Honorable Common Council:

GENTLEMEN:—Herewith I beg to submit detailed statements of the receipts and disbursements of the various funds of the city, from January 1st, 1888, to January 1st, 1889, as shown by the books of the several persons acting as City Treasurer during that period. This report will be embraced in four sub-divisions, as follows: First, showing report of receipts and disbursements from January 1st, 1888, to October 22d, 1888, inclusive, as appears by the books of Thomas Axworthy, Treasurer during that period. Second, showing report of receipts and disbursements from October 23d, 1888, to November 27th, 1888, inclusive, as appears by the books of Kaufman Hays, Acting Treasurer during that period. Third, showing report of receipts and disbursements from November 28th, 1888 (the day upon which the duties of the office were assumed by me), to December 31st, 1888, inclusive. Fourth, showing the receipt and disposition of certain money known and referred to as belonging to the "Axworthy Fund," which was placed in my possession by Messrs. B. D. Babcock and J. L. Athey, respectively Mayor and Auditor of the City, for disbursement under the order and direction of the Honorable Board of Revision of the City of Cleveland.

Respectfully submitted,

E. H. BOURNE,

City Treasurer.

First Sub-Division of Report.

DR.

ATLANTIC STREET GRADING.		
Balance January 1, 1888.....	\$ 14 41	
Disbursements.....		\$ 50 00
Overdrawn.....		\$ 35 59
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Overdrawn January 1, 1888.....		461 58
ABBEY STREET GRADING.		
Overdrawn January 1, 1888.....	2,907 40	
Disbursements.....	5,490 43	8,397 83
Receipts.....		8,358 85
Overdrawn.....		38 98
BRAYTON STREET GRADING.		
Overdrawn January 1, 1888.....	54 35	
Disbursements.....		3 90
Overdrawn.....		58 25
BOND STREET REPAVING.		
Overdrawn January 1, 1888.....	399 70	
Disbursements.....		4 05
Overdrawn.....		403 75
BROADWAY REPAVING.		
<i>900 feet South of Independence to Meade.</i>		
Balance January 1, 1888.....	336 97	
Receipts.....	1,205 23	1,542 20
Disbursements.....		1,799 79
Overdrawn.....		257 59
BECKWITH STREET IMPROVEMENTS.		
Overdrawn January 1, 1888.....		1,042 13

BROADWAY PAVING.		
<i>Miles to Woodland Hills Ave.</i>		
Overdrawn January 1, 1888.....		\$ 104 96
BROOKER AVENUE GRADING.		
Balance January 1, 1888	\$ 140 38	
Receipts.....	15 85	\$ 156 23
Disbursements.....		162 06
Overdrawn.....		5 83
CENTRAL PLACE OPENING.		
Overdrawn January 1, 1888.....	12,265 65	
Disbursements.....		13 18
Overdrawn.....		12,278 83
CONRAD STREET GRADING.		
Overdrawn January 1, 1888.....	37 73	
Disbursements.....	28 09	65 82
Receipts.....		12 01
Overdrawn.....		53 81
CEDAR AVENUE SEWER.		
Overdrawn January 1, 1888.....	11,085 65	
Disbursements.....	1,892 75	12,978 40
Receipts.....		7,128 37
Overdrawn.....		5,850 03
DAVIS STREET PAVING.		
Balance January 1, 1888.....	5,600 53	
Receipts.....	5,107 78	10,708 31
Disbursements.....		10,729 44
Overdrawn.....		21 13

CANFIELD STREET GRADING.		
Overdrawn January 1, 1888.....	\$ 557 11	
Disbursements.....	205 68	\$ 762 79
Receipts.....		673 68
Overdrawn.....		\$ 89 11
CORNELL STREET GRADING.		
Overdrawn January 1, 1888.....	28 01	
Disbursements.....	185 73	213 74
Receipts.....		139 73
Overdrawn.....		74 01
ELTON STREET GRADING.		
Overdrawn January 1, 1888.....	57 73	
Disbursements.....		7 85
Overdrawn.....		65 58
EUCLID AVENUE REPAVING.		
<i>Willson to Fairmount.</i>		
Overdrawn January 1, 1888.....		175 34
EAST RIVER STREET REPAVING.		
Overdrawn January 1, 1888.....		14 32
EUCLID AVENUE REPAVING.		
<i>Fairmount to City Limits.</i>		
Overdrawn January 1, 1888.....	5,172 92	
Disbursements.....	19,446 92	24,619 84
Receipts.....		21,546 80
Overdrawn.....		3,073 04
FAIRMOUNT STREET MACADAMIZING.		
Overdrawn January 1, 1888.....		20 00

FAIRMOUNT STREET REPAVING.		
<i>East to Baldwin.</i>		
Overdrawn January 1, 1888.....	\$ 588 71	
Disbursements.....	9,126 80	\$ 9,715 51
Receipts.....		9,567 00
Overdrawn.....		\$ 148 51
FAIRMOUNT STREET PLANKING.		
Overdrawn January 1, 1888.....	1,391 12	
Disbursements.....	364 04	1,755 16
Receipts.....		344 00
Overdrawn.....		1,411 16
FRANKLIN AVENUE PAVING.		
<i>Waverly to Gordon.</i>		
Balance January 1, 1888.....	5,095 57	
Receipts.....	6,081 53	11,127 10
Disbursements.....		11,217 25
Overdrawn.....		90 15
GRAND AVENUE GRADING.		
Overdrawn January 1, 1888.....		5,095 01
GRAND AVENUE OPENING.		
Overdrawn January 1, 1888.....		190 69
HERALD STREET GRADING.		
Overdrawn January 1, 1888.....		11,720 68
HARVARD STREET GRADING AND CURBING.		
Overdrawn January 1, 1888.....	274 17	
Disbursements.....		8 00
Overdrawn.....		282 17

HURON STREET PAVING.			
Balance January 1, 1888.....	\$ 4,674 29		
Receipts.....	784 05	\$ 5,458 34	
Disbursements.....		5,863 72	
Overdrawn.....			\$ 405 38
HILL STREET PAVING.			
Overdrawn January 1, 1888.....	1,378 24		
Disbursements.....	784 05	2,162 29	
Receipts.....		593 49	
Overdrawn.....			1,568 80
HAYWARD STREET GRADING.			
Balance January 1, 1888.....	4,380 22		
Disbursements.....		4,437 43	
Overdrawn.....			57 21
IONA STREET.			
Balance January 1, 1888.....	1,172 05		
Receipts.....	45 10	1,217 15	
Disbursements.....		1,508 88	
Overdrawn.....			291 73
KINSMAN STREET PAVING AND CURBING.			
Overdrawn January 1, 1888.....	5,866 22		
Disbursements.....	5,071 65	10,937 87	
Receipts.....		10,911 12	
Overdrawn.....			26 75
LEXINGTON AVENUE GRADING.			
Balance January 1, 1888.....	80 84		
Receipts.....	525 00	605 84	
Disbursements.....		840 86	
Overdrawn.....			235 02

MARQUETTE STREET.		
Overdrawn January 1, 1888.....		\$ 1,121 47
MERCHANTS AVENUE CURBING.		
Overdrawn January 1, 1888.....	\$ 311 48	
Disbursements.....	7 85	\$ 319 33
Receipts.....		25 15
Overdrawn.....		294 18
MAPLE STREET GRADING.		
Overdrawn January 1, 1888.....	58 84	
Disbursements.....	78 30	137 14
Receipts.....		99 54
Overdrawn.....		37 60
PETRIE STREET GRADING.		
Receipts.....	2,120 44	
Disbursements.....		2,161 28
Overdrawn.....		40 84
PAYNE AVENUE OPENING.		
Overdrawn January 1, 1888.....		9,423 09
PEARL STREET PAVING.		
Overdrawn January 1, 1888.....		484 96
PETRIE STREET BRIDGE.		
Balance January 1, 1889.....	800 37	
Disbursements.....		802 90
Overdrawn.....		2 53
PERKINS AVENUE GRADING.		
Overdrawn January 1, 1888.....	413 58	
Disbursements.....	665 47	1,079 05
Receipts.....		343 30
Overdrawn.....		735 75

ST. CLAIR STREET REPAVING.		
<i>Erie to Willson.</i>		
Overdrawn January 1, 1888.....	\$ 2,377 18	
Disbursements.....	23,850 82	\$ 26,228 00
Receipts.....		25,718 45
Overdrawn.....		\$ 509 55
STATE STREET GRADING.		
Overdrawn January 1, 1888.....	569 62	
Disbursements.....		7 85
Overdrawn.....		577 47
SUPERIOR STREET PAVING.		
<i>Perry to Willson.</i>		
Overdrawn January 1, 1888.....	4,198 74	
Disbursements.....	144 60	4,343 34
Receipts.....		3,576 79
Overdrawn.....		766 55
SUMMIT STREET OPENING.		
Overdrawn January 1, 1888.....	1,800 00	
Disbursements.....	2,290 00	4,090 00
Receipts.....		4,000 00
Overdrawn.....		90 00
SEWER DISTRICT No. 2.		
Overdrawn January 1, 1888.....	1,161 31	
Disbursements.....	2,168 42	3,329 73
Receipts.....		2,677 28
Overdrawn.....		652 45

SHERIFF STREET PAVING.		
<i>Huron to Bolivar.</i>		
Overdrawn January 1, 1888.....	\$ 182 90	
Disbursements.....		\$ 7 85
Overdrawn.....		\$ 190 75
SHERIFF STREET PAVING.		
<i>Prospect to Huron.</i>		
Overdrawn January 1, 1888.....	\$ 825 88	
Disbursements.....	21 35	847 23
Receipts.....		5 80
Overdrawn.....		841 43
SHERIFF STREET REPAVING.		
<i>Euclid to Prospect.</i>		
Overdrawn January 1, 1888.....	414 08	
Receipts.....		107 40
Overdrawn.....		306 68
SHERIFF STREET DAMAGES BY GRADING.		
Balance January 1, 1888.....	55 14	
Receipts.....	1,618 48	1,673 62
Disbursements.....		1,892 95
Overdrawn.....		219 33
TOWNSEND STREET GRADING.		
Overdrawn January 1, 1888.....	17 16	
Disbursements.....	8 00	
Overdrawn.....		25 16
WAVERLY AVENUE CURBING.		
Overdrawn January 1, 1888.....	29 99	
Disbursements.....	6 76	36 75
Receipts.....		5 80
Overdrawn.....		30 95

REPORT OF THE CITY TREASURER.

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WARING STREET SEWER.			
Balance January 1, 1898.....	\$	32 01	
Receipts.....		168 90	\$ 200 91
Disbursements.....			336 51
Overdrawn.....			\$ 135 60
LIBERAL STREET SEWER.			
Receipts.....		543 14	
Disbursements.....			584 17
Overdrawn.....			41 03
SUSPENDED ACCOUNT.			
Disbursements by transfers.....			130,890 97
Total			\$193,065 46
Balance.....			668,515 82
			\$861,581 28

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ARMORY FUND.			
Balance January 1, 1888	\$ 245 79		
Disbursements		\$ 224 42	
Balance.....			\$ 21 37
BOND STREET OPENING.			
Balance January 1, 1888.....	2,408 05		
Disbursements		37 79	
Balance.....			2,370 26
BROADWAY PAVING.			
<i>Ohio to Independence.</i>			
Overdrawn January 1, 1888	1,024 16		
Disbursements.....	300 00	1,324 16	
Receipts		1,400 00	
Balance.....			75 84
BROADWAY PAVING.			
<i>Independence to Union.</i>			
Overdrawn January 1, 1888	1,364 44		
Disbursements.....	1,289 13	2,653 57	
Receipts		2,784 53	
Balance.....			130 96
BROADWAY PAVING.			
<i>Union to Miles.</i>			
Overdrawn January 1, 1888	623 95		
Disbursements.....	4,460 00	5,083 95	
Receipts		5,200 00	
Balance.....			116 05

BRIDGE FUND.		
Overdrawn January 1, 1888	\$ 9,513 31	
Disbursements.....	35,837 42	\$ 45,350 73
Receipts.....		46,443 77
Balance.....		\$ 1,093 04
BROADWAY PAVING.		
<i>Mead to Union.</i>		
Receipts.....	23,298 28	
Disbursements.....		10,341 76
Balance.....		12,956 52
COMMERCIAL STREET SEWER.		
Balance January 1, 1888.....	455 99	
Receipts	14 85	470 84
Disbursements.....		156 67
Balance.....		314 17
CLARK AVENUE DAMAGES.		
Balance January 1, 1888.....	186 80	
Receipts	4,362 35	4,549 15
Disbursements.....		3,541 66
Balance.....		1,007 49
COLEMAN ALLEY GRADING.		
Balance January 1, 1888.....	59 23	
Receipts.....	321 60	380 83
Disbursements.....		368 07
Balance.....		12 76
DODGE STREET GRADING.		
Balance January 1, 1888.....	20 10	
Disbursements.....		3 50
Balance.....		16 60

DREDGING FUND.			
Balance January 1, 1888.....	\$ 9,282 27		
Receipts	22,270 88	\$ 31,553 15	
Disbursements.....		22,932 36	
Balance.....			\$ 8,620 79
CEMETERY FUND.			
Receipts			26,710 41
CROTON STREET SEWER.			
Balance January 1, 1888.....	64 96		
Receipts.....	419 80	484 76	
Disbursements.....		477 65	
Balance.....			7 11
EUCLID AVENUE REPAVING.			
<i>Case to Willson.</i>			
Balance January 1, 1888.....	197 73		
Receipts.....	301 22		
Balance.....			498 95
EUCLID AVENUE REPAVING.			
<i>West of Erie.</i>			
Balance January 1, 1888.....	172 91		
Receipts	500 00	672 91	
Disbursements.....		600 00	
Balance.....			72 91
ELEVATED ROADWAY.			
Balance January 1, 1888.....	28,011 15		
Receipts	214,216 67	242,227 82	
Disbursements.....		180,009 91	
Balance.....			62,217 91

REPORT OF THE CITY TREASURER.

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CANTON STREET DAMAGES.		
Balance January 1, 1888.....	\$ 95 32	
Receipts	212 50	\$ 307 82
Disbursements.....		271 29
Balance.....		\$ 36 53
CASE AVENUE PAVING.		
<i>Payne to L. S. & M. S. Ry.</i>		
Receipts.....	40,078 63	
Disbursements.....		36,465 97
Balance.....		3,612 66
FIRE DEPARTMENT FUND.		
Balance January 1, 1888.....	2,079 91	
Receipts	255,030 02	257,109 93
Disbursements		190,290 69
Balance.....		66,829 24
FRANKLIN AVENUE PAVING.		
<i>Pearl to Circle.</i>		
Overdrawn January 1, 1888	2,103 55	
Disbursements.....	617 73	2,721 28
Receipts		3,000 19
Balance.....		368 91
FRANKLIN AVENUE PAVING.		
<i>Waverly to Circle.</i>		
Balance January 1, 1888.....	8,942 56	
Receipts	30,357 86	39,300 42
Disbursements.....		34,518 48
Balance.....		4,781 94

REPORT OF THE CITY TREASURER.

GENERAL FUND.			
Overdrawn January 1, 1888.....	\$ 16,564 83		
Disbursements.....	181,796 33	\$ 198,361 16	
Receipts.....		240,995 51	
Balance.....			\$ 42,634 35
HOUSE OF CORRECTION FUND.			
Balance January 1, 1888.....	5,167 80		
Receipts.....	94,869 74	100,037 54	
Disbursements.....		89,627 96	
Balance.....			10,409 58
HOSPITAL FUND.			
Balance January 1, 1888.....	409 51		
Receipts.....	2,721 68	3,131 19	
Disbursements.....		2,077 99	
Balance.....			1,053 20
INFIRMARY FUND.			
Balance January 1, 1888.....	44,884 43		
Receipts.....	83,203 89	128,088 32	
Disbursements.....		103,903 03	
Balance.....			24,185 29
INTEREST FUND.			
Balance January 1, 1888.....	27,309 61		
Receipts.....	475,020 73	502,330 34	
Disbursements.....		371,050 00	
Balance.....			131,290 34
JENNINGS AVENUE GRADING.			
Balance January 1, 1888.....	57 64		
Receipts.....	200 00	257 64	
Disbursements.....		221 45	
Balance.....			36 19

JESSIE STREET GRADING.			
Balance January 1, 1888.....	\$ 502 72		
Disbursements.....		\$ 1 38	
Balance.....			\$ 501 36
HUMBOLDT STREET SEWER.			
Balance January 1, 1888.....	184 86		
Receipts.....	1,234 54	1,419 40	
Disbursements.....		1,219 82	
Balance.....			199 53
KINGSBURY BRIDGE.			
Balance January 1, 1888.....	13,994 37		
Receipts.....	150 00	14,144 37	
Disbursements.....		4,769 93	
Balance.....			9,374 44
KENNARD STREET PAVING.			
Overdrawn January 1, 1888.....	3,341 65		
Disbursements.....	15,694 04	19,035 69	
Receipts.....		21,948 92	
Balance.....			2,913 23
LORAIN STREET REPAVING.			
<i>Pearl to Waverly.</i>			
Balance January 1, 1888.....	1,477 08		
Receipts.....	3,856 30	5,333 38	
Disbursements.....		1,482 33	
Balance.....			3,851 05
LIGHTING FUND.			
Balance January 1, 1888.....	16,489 96		
Receipts.....	144,138 68	160,628 64	
Disbursements.....		115,295 98	
Balance.....			45,332 66

LAKE STREET REPAVING.		
Balance January 1, 1888.....		\$ 92 10
MARKET FUND.		
Balance January 1, 1888.....	\$ 10,189 78	
Receipts.....	17,652 25	\$ 27,842 03
Disbursements.....		21,725 05
Balance.....		6,116 98
MIDDLE STREET PAVING.		
Overdrawn January 1, 1888.....	26 06	
Disbursements.....	292 18	318 24
Receipts.....		3,517 70
Balance.....		3,199 46
MUIRSON STREET GRADING.		
Balance January 1, 1888.....	177 83	
Receipts.....	77 98	255 81
Disbursements.....		200 28
Balance.....		55 53
ORANGE STREET OPENING.		
Balance January 1, 1888.....		304 83
OHIO STREET PAVING.		
Overdrawn January 1, 1888.....	345 21	
Disbursements.....	7,355 80	7,701 01
Receipts.....		7,952 58
Balance.....		251 57
POLICE (FUND) COURT.		
Balance January 1, 1888.....	1,079 97	
Receipts.....	22,217 78	23,297 75
Disbursements.....		10,743 39
Balance.....		12,554 36

POLICE DEPARTMENT FUND.		
Balance January 1, 1888.....	\$ 985 72	
Receipts.....	272,243 34	\$ 273,229 06
Disbursements.....		208,919 84
Balance.....		\$ 64,309 22
PARK FUND.		
Overdrawn January 1, 1888.....	1,442 59	
Disbursements.....	30,146 62	31,589 21
Receipts.....		33,977 91
Balance.....		2,388 70
PERKINS AVENUE SEWER.		
Balance January 1, 1888.....	331 15	
Receipts.....	359 75	690 90
Disbursements.....		107 76
Balance.....		583 14
PAYNE AVENUE GRADING.		
Overdrawn January 1, 1888.....	68 38	
Disbursements.....	242 87	311 25
Receipts.....		4,240 56
Balance.....		3,929 31
PERRY STREET PAVING.		
Balance January 1, 1888.....	817 54	
Receipts.....	5,474 64	6,292 18
Disbursements.....		863 14
Balance.....		5,429 04
PITTSBURGH STREET PAVING.		
Balance January 1, 1888.....	4,282 28	
Receipts.....	2,112 40	6,394 68
Disbursements.....		6,297 69
Balance.....		96 99

PEARL STREET BRIDGE.			
Receipts.....	\$ 25,570 26		
Disbursements.....		\$ 21,236 77	
Balance.....			\$ 4,333 49
RAWLINGS STREET GRADING.			
Overdrawn January 1, 1888.....	50 51		
Disbursements.....	11 07	61 58	
Receipts.....		274 60	
Balance.....			213 02
SIBLEY STREET PAVING.			
Receipts			8,000 00
STREET FUND.			
Balance January 1, 1888.....	85 58		
Receipts	111,514 70	111,600 28	
Disbursements		84,538 98	
Balance.....			27,061 30
SANITARY FUND.			
Balance January 1, 1888.....	7,371 66		
Receipts.....	31,495 38	38,867 04	
Disbursements.....		22,409 51	
Balance.....			16,457 53
STREET INTERSECTIONS.			
Balance January 1, 1888.....	6,042 28		
Receipts.....	28,914 59	34,956 87	
Disbursements.....		11,544 85	
Balance.....			23,412 02

SUPERIOR STREET WIDENING.			
Balance January 1, 1888.....	\$ 19 15		
Receipts.....	250 00	\$ 269 15	
Disbursements.....		240 00	
Balance			\$ 29 15
ST. CLAIR STREET WIDENING.			
Overdrawn January 1, 1888.....	107 58		
Disbursements.....	187 67	285 25	
Receipts.....		342 40	
Balance.....			47 15
SEWER DISTRICT No. 1.			
Balance January 1, 1888.....	3,336 25		
Receipts.....	571 90	3,908 15	
Disbursements		1,674 97	
Balance.....			2,233 18
SEWER DISTRICT No. 3.			
Balance January 1, 1888.....	4,552 98		
Receipts.....	1,451 11	6,004 09	
Disbursements.....		1,499 00	
Balance.....			4,505 09
SEWER DISTRICT No. 4.			
Overdrawn January 1, 1888.....	1,696 66		
Disbursements.....	887 54	2,584 20	
Receipts.....		3,967 65	
Balance.....			1,383 45
SEWER DISTRICT No. 5.			
Overdrawn January 1, 1888.....	4,241 18		
Disbursements.....	17,246 82	21,488 00	
Receipts.....		28,687 04	
Balance.....			7,199 04

SEWER DISTRICT No. 6.		
Balance January 1, 1888.....	\$ 434 53	
Receipts.....	1,425 71	\$ 1,860 24
Disbursements.....		66 54
Balance.....		\$ 1,793 70
SEWER DISTRICT No. 7.		
Overdrawn January 1, 1888.....	6,298 78	
Disbursements.....	42,037 66	48,336 44
Receipts.....		57,216 61
Balance.....		8,880 17
SEWER DISTRICT No. 8.		
Overdrawn January 1, 1888.....	431 31	
Disbursements.....	29 90	461 21
Receipts.....		993 46
Balance.....		532 25
SEWER DISTRICT No. 9.		
Balance January 1, 1888.....	1,144 65	
Receipts.....	480 25	1,624 90
Disbursements.....		482 46
Balance.....		1,142 44
SEWER DISTRICT No. 10.		
Balance January 1, 1888.....	130 00	
Receipts.....	791 75	921 75
Disbursements.....		30 28
Balance.....		891 47
SEWER DISTRICT No. 11.		
Balance January 1, 1888.....	4,999 16	
Receipts.....	6,707 40	11,706 56
Disbursements.....		7,698 89
Balance.....		4,007 67

SEWER DISTRICT No. 12.			
Overdrawn January 1, 1888.....	3,050 82		
Disbursements.....	76 72	3,127 54	
Receipts.....		3,309 19	
Balance.....			\$ 181 65
SEWER DISTRICT No. 15.			
Balance January 1, 1888.....	12,474 44		
Receipts.....	98,921 77	111,396 21	
Disbursements.....		97,676 23	
Balance.....			13,719 98
SEWER DISTRICT No. 16.			
Balance January 1, 1888.....	7,799 56		
Receipts.....	11,019 84	18,819 40	
Disbursements.....		16,904 80	
Balance.....			1,914 60
SEWER DISTRICT No. 17.			
Overdrawn January 1, 1888.....	4,901 59		
Disbursements.....	5,795 04	10,696 63	
Receipts.....		19,362 42	
Balance.....			8,665 79
SEWER DISTRICT No. 18.			
Receipts.....	3,732 49		
Disbursements.....		209 56	
Balance.....			3,522 93
ST. CLAIR STREET SEWER.			
Overdrawn January 1, 1883.....	2,146 95		
Disbursements.....	1,010 00	3,156 95	
Receipts.....		3,250 00	
Balance.....			93 05

SMITH ALLEY SEWER.			
Overdrawn January 1, 1878.....	\$	10 11	
Disbursements.....		44 58	\$ 54 69
Receipts.....			431 64
Balance.....			\$ 376 95
ST. CLAIR STREET GRADING.			
<i>Willson to East Madison.</i>			
Overdrawn January 1, 1888.....		73 19	
Disbursements.....		1,040 00	1,113 19
Receipts.....			1,158 50
Balance.....			45 31
ST. CLAIR STREET GRADING.			
<i>East Madison to Becker.</i>			
Receipts.....		2,676 00	
Disbursements.....			1,027 20
Balance.....			1,648 80
TAYLOR STREET GRADING.			
Balance January 1, 1888.....		138 81	
Receipts.....		1,160 52	1,299 33
Disbursements.....			221 73
Balance.....			1,077 60
TAX REFUNDING (NEW.)			
Receipts.....		31,189 81	
Disbursements.....			30,261 48
Balance.....			928 33
TAX REFUNDING (OLD.)			
Receipts.....		18,850 76	
Disbursements.....			14,164 34
Balance.....			4,686 42

VIADUCT SINKING FUND.		
Balance January 1, 1888.....	\$ 13 25	
Receipts.....	48,611 28	\$ 48,624 53
Disbursements.....		48,459 03
Balance.....		\$ 165 50
EAST MADISON AVENUE SEWER.		
Receipts.....	85,358 83	
Disbursements.....		49,359 74
Balance.....		85,999 09
VINCENT STREET OPENING.		
Balance January 1, 1888.....	28 83	
Receipts.....	2,291 25	2,320 08
Disbursements.....		2,319 17
Balance.....		91
PLATT STREET SEWER.		
Receipts.....		550 00
WILLSON AVENUE OPENING.		
Overdrawn January 1, 1888.....	2,894 88	
Disbursements.....	588 36	3,483 24
Receipts.....		3,600 00
Balance.....		116 76
WILLSON AVENUE GRADING.		
<i>Julia to Maurice.</i>		
Receipts.....	1,576 77	
Disbursements.....		139 18
Balance.....		1,437 59
WILLSON AVENUE GRADING.		
Balance January 1, 1888.....		4,254 96

WILLSON AVENUE DAMAGES.			
<i>Swetell to Railway.</i>			
Overdrawn January 1, 1888.....	\$ 1,331 84		
Disbursements.....	401 31	\$ 1,733 15	
Receipts.....		1,852 80	
Balance.....			\$ 119 65
WATKINS STREET GRADING.			
Balance January 1, 1888.....	179 58		
Disbursements.....		107 74	
Balance.....			71 84
CHATHAM STREET SEWER.			
Receipts.....	338 50		
Disbursements.....		16 25	
Balance.....			322 25
COURTLAND STREET SEWER.			
Receipts.....	15,071 20		
Disbursements.....		9,788 29	
Balance.....			5,282 91
LIBERTY STREET SEWER.			
Receipts.....	504 19		
Disbursements.....		452 42	
Balance.....			51 77
LORAIN STREET SEWER.			
Receipts.....	2,044 90		
Disbursements.....		1,022 40	
Balance.....			1,022 50

MCLEAN STREET SEWER.			
Receipts.....	\$ 640 50		
Disbursements.....		\$ 69 95	
Balance.....			\$ 570 55
PELTON AVENUE SEWER.			
Receipts.....	6,452 20		
Disbursements.....		6,131 69	
Balance.....			320 51
ROOT STREET SEWER.			
Receipts.....	883 20		
Disbursements.....		19 47	
Balance.....			863 73
WALTON AVENUE SEWER.			
Receipts.....	571 05		
Disbursements.....		24 37	
Balance.....			546 68
WAVERLY AVENUE SEWER.			
Receipts.....	5,718 50		
Disbursements.....		99 54	
Balance.....			5,619 26
WILLETT STREET SEWER.			
Receipts.....	2,435 50		
Disbursements.....		14 07	
Balance.....			2,421 43
WILLEY AND TRACY STREETS SEWER.			
Receipts.....	1,604 80		
Disbursements.....		11 43	
Balance.....			1,593 37

LENA AVENUE SEWER.			
Receipts.....	\$ 2,240 25		
Disbursements.....		\$ 1,772 01	
Balance.....			\$ 468 24
BIRCH STREET SEWER.			
Receipts.....	167 87		
Disbursements.....		12 38	
Balance.....			155 49
BIRCH STREET GRADING.			
Receipts.....	802 70		
Disbursements.....		26 67	
Balance.....			776 03
BOLTON AVENUE SEWER.			
Receipts.....	4,132 70		
Disbursements.....		1,248 61	
Balance.....			2,884 09
BROADWAY SEWER.			
<i>Union to Miles.</i>			
Receipts.....	5,419 97		
Disbursements.....		110 61	
Balance.....			5,309 36
DAYTON STREET SEWER.			
Receipts.....	427 85		
Disbursements.....		1 57	
Balance.....			426 28

FLORENCE STREET SEWER.		
Receipts.....	\$ 3,860 80	
Disbursements.....		\$ 1,017 33
Balance.....		\$ 2,813 47
HOUGH AVENUE SEWER.		
Receipts.....	3,715 85	
Disbursements.....		3,652 70
Balance.....		63 15
OUTHWAITE STREET SEWER.		
Receipts.....	582 43	
Disbursements.....		1 56
Balance.....		580 87
SAGO STREET SEWER.		
Receipts ..		257 00
JESSIE STREET SEWER.		
Receipts	1,395 93	
Disbursements.....		52 05
Balance.....		1,343 88
WADE PARK AVENUE SEWER.		
Receipts	3,887 48	
Disbursements		193 60
Balance.....		3,693 88
DOAN STREET SEWER.		
Receipts		75 00
HOWLETT STREET SEWER.		
Receipts	598 37	
Disbursements.....		59 23
Balance.....		539 14

PRAME STREET GRADING.			
Receipts	\$ 85 60		
Disbursements.....		19 24	
Balance.....			\$ 66 36
CORWIN STREET PAVING.			
Receipts	273 71		
Disbursements		30 40	
Balance.....			243 31
MIAMI ALLEY PAVING.			
Receipts	835 52		
Disbursements.....		16 50	
Balance.....			819 02
BELMONT STREET CURBING.			
Receipts.....	582 15		
Disbursements		1 12	
Balance.....			581 03
BROOKFIELD STREET GRADING.			
Receipts.....	2,691 00		
Disbursements.....		90 10	
Balance.....			2,600 90
SIBLEY STREET GRADING.			
Receipts	331 00		
Disbursements.....		46 89	
Balance.....			284 11
FLORENCE STREET GRADING.			
Receipts	800 75		
Disbursements.....		13 46	
Balance.....			787 29

GENESEE STREET GRADING.		
Receipts.....		\$ 1,201 50
GRANGER STREET GRADING.		
Receipts.....		620 70
IRVING STREET GRADING.		
Receipts.....	823 05	
Disbursements.....		28 96
Balance.....		794 09
LINCOLN AVENUE GRADING.		
Receipts.....	647 30	
Disbursements.....		19 39
Balance.....		627 91
LISBON STREET GRADING.		
Receipts.....	475 25	
Disbursements.....		21 17
Balance.....		454 08
LODGE AVENUE GRADING.		
Receipts.....	638 50	
Disbursements.....		1 12
Balance.....		637 38
MAYFLOWER STREET GRADING.		
Receipts.....	672 16	
Disbursements.....		1 12
Balance.....		670 98
NORWOOD AVENUE GRADING.		
Receipts.....	3,668 70	
Disbursements.....		33 00
Balance.....		3,635 70

OREGON STREET GRADING.			
Receipts.....	\$ 479 10		
Disbursements.....		\$ 10 00	
Balance.....			\$ 469 10
QUINCY STREET GRADING.			
Overdrawn January 1, 1888	1,109 03		
Receipts.....		2,541 97	
Balance.....			1,432 94
SOUTH BELL AVENUE GRADING.			
Receipts	1,231 30		
Disbursements.....		10 12	
Balance.....			1,221 18
STREATOR AVENUE GRADING.			
Receipts			955 55
SYKORA STREET GRADING.			
Receipts			291 25
TILDEN AVENUE GRADING.			
Receipts	894 95		
Disbursements.....		1 12	
Balance.....			893 83
WHITEHEAD STREET GRADING.			
Receipts.....	108 05		
Disbursements.....		1 12	
Balance.....			106 93
UNCLAIMED MONEY ACCOUNT.			
Receipts	1,414 32		
Disbursements.....		1,129 05	
Balance.....			285 27

SENECA STREET BRIDGE.		
Receipts.....	\$ 16,381 50	
Disbursements.....		\$ 5,794 72
Balance.....		\$ 10,586 78
WILLOW STREET BRIDGE.		
Receipts.....		500 00
RESERVOIR STREET GRADING.		
Receipts.....		382 56
WATER WORKS FUND.		
Receipts.....	360,692 94	
Disbursements.....		344,011 14
Balance.....		16,681 80
POLICE PENSION FUND.		
Balance October 1, 1888.....	12,686 33	
Receipts.....	3,229 05	15,915 38
Disbursements.....		526 30
Balance.....		15,389 08
POLICE CONTINGENT FUND.		
Balance.....		205 52
FIREMEN'S RELIEF FUND.		
Balance.....	5,084 54	
Receipts.....		375 00
Balance.....		5,459 54
Total.....		861,581 28
Balance October 23, 1888.....		\$ 668,515 82

Second Subdivision of Report.



RECEIPTS.

Orders, advances, etc., from T. Axworthy, Treasurer.....	\$ 4,456 27
Cash on hand October 23, 1888.....	9,746 82
Jno. Vanek, Secretary.....	687 83
B. D. Babcock and Jay L. Athey, National Bank of Commerce.....	191,009 83
B. D. Babcock and Jay L. Athey, Union National Bank.....	58,235 61
H. M. Claßen, check, Thos. Axworthy, Treasurer.....	8,000 00
House of Correction Fund.....	7,222 65
General Fund.....	3,272 83
Hospital Fund.....	465 00
Market Fund.....	225 25
Seneca street bridge Fund.....	10,500 00
Lighting Fund.....	6 27
Infirmary Fund.....	929 47
Viaduct Sinking Fund.....	98 75
Cemetery Fund.....	1,955 20
St. Clair street grading Fund.....	300 00
Park Fund.....	105 49
Bridge Fund.....	10 00
Summit street opening Fund.....	75 00
Davis street paving Fund.....	20 00
Euclid avenue repaving Fund.....	20 00
Broadway repaving, Union to Meade, Fund.....	23,294 78
Oregon street grading Fund.....	47 88
Jessie street sewer Fund.....	700 00
Perry street repaving, paving Fund.....	432 75
Franklin avenue repaving Fund.....	1,971 03
Street Fund.....	1,488 05
Sanitary Fund.....	555 00
Fire Department Fund.....	210 75
Police Court Fund.....	1,678 82
Total	\$327,721 33

DISBURSEMENTS.

Sanitary Fund.....	\$ 3,038 96
Police Department Fund.....	21,900 97
Street Fund.....	10,429 89
Dredging Fund.....	469 38
Police Court Fund.....	1,840 90
Interest Fund.....	42,255 00
Cemetery Fund.....	2,113 54
Tax refunding (new) Fund.....	5 29
Tax refunding (old) Fund.....	19 08
Case avenue paving Fund.....	3,400 00
East Madison avenue sewer Fund.....	7,826 17
Willson avenue opening Fund.....	112 67
Payne avenue grading Fund.....	652 46
Fire Department Fund.....	22,296 58
Infirmary Fund.....	12,117 27
Dibble street grading Fund.....	176 40
Elevated Roadway Fund.....	32,518 36
Whitehead street grading Fund.....	92 42
Miami alley paving Fund.....	759 27
Lighting Fund.....	23,411 21
Florence street sewer Fund.....	2,365 26
Rawlings avenue paving Fund.....	176 58
Jessie street sewer Fund.....	2,130 45
Birch street grading Fund.....	767 43
Birch street sewer Fund.....	155 49
House of Correction Fund.....	16,080 65
General Fund.....	15,909 37
Market Fund.....	2,039 60
Park Fund.....	1,395 44
Bridge Fund.....	3,755 96
Dayton street sewer Fund.....	270 96
Taylor street grading Fund.....	551 13
Broadway repaving Fund.....	31,255 27
Seneca street curbing Fund.....	6 00
St. Clair street grading Fund.....	2,583 00
Seneca street bridge Fund.....	19,703 64
Quincy street grading Fund.....	699 58
Florence street grading Fund.....	321 92

REPORT OF THE CITY TREASURER.

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Lincoln avenue grading Fund.....	70 20
Hospital Fund.....	945 00
Mayflower street grading Fund.....	471 69
Corwin avenue grading Fund.....	243 31
Vincent street opening Fund.....	91
Franklin avenue repaving Fund.....	5,500 00
Perry street repaving Fund.....	5,232 77
Brookfield street grading Fund.....	460 13
Waverly avenue sewer Fund.....	1,008 15
Courtland street sewer Fund.....	2,963 86
Norwood street grading Fund.....	2,146 21
Sewer District No. 5 Fund.....	239 12
Root street sewer Fund.....	537 30
Wade Park avenue sewer Fund.....	2,886 39
Sago street sewer Fund.....	6 20
Streator avenue grading Fund.....	875 13
Bolton avenue sewer Fund.....	1,266 28
Sewer District No. 6 Fund.....	10 75
Genesee street grading Fund.....	369 58
Tilden avenue grading Fund.....	174 53
Sewer District No. 1 Fund.....	28 66
Sewer District No. 7 Fund.....	51 68
Sewer District No. 3 Fund.....	110 87
Sewer District No. 12 Fund.....	43 01
Sewer District No. 15 Fund.....	74 75
Sewer District No. 16 Fund.....	17 00
Chatham street sewer Fund.....	182 85
South Bell avenue grading Fund.....	1,062 07
Lodge avenue grading Fund.....	364 50
Irving street grading Fund.....	378 76
Lena avenue sewer Fund.....	278 94
Sewer District No. 4 Fund.....	32 25
Sewer District No. 8 Fund.....	17 95
Sewer District No. 17 Fund.....	3 60
Sewer District No. 18 Fund.....	6 00
Sewer District No. 9 Fund.....	65 36
Sewer District No. 10 Fund.....	7 00
Sewer District No. 11 Fund.....	67 62
Smith alley sewer Fund.....	70
Willey and Tracey streets sewer Fund.....	69

Walton avenue sewer Fund.....	\$ 69
Willett street sewer Fund.....	69
Sykora street grading Fund.....	236 87
Sibley street paving Fund.....	4,376 34
Reservoir street grading Fund.....	148 96
Middle street paving Fund.....	3,129 49
Kennard street paving Fund.	2,362 02
Euclid avenue repaving Fund....	11 50
Water Works Fund.....	90 67
Library Fund.....	1,724 44
Board of Education Fund.....	126 95
Firemen's Relief Fund.....	700 00
Police Pension Fund.....	541 58
Cash November 28, 1888.....	416 81
Total.....	\$327,721 33

Third Subdivision of Report.

OR.

BRIDGE FUND.		
Receipts.....	\$ 8,006 50	
Disbursements.....		\$ 3,392 49
Balance.....		\$ 4,614 01
FIRE DEPARTMENT FUND.		
Receipts.....	30,008 25	
Disbursements.....		3,703 47
Balance.....		26,304 78
GENERAL FUND.		
Receipts.....	54,949 44	
Disbursements.....		3,428 25
Balance.....		51,521 19
HOUSE OF CORRECTION FUND.		
Receipts.....	20,324 37	
Disbursements.....		10,975 87
Balance.....		9,348 50
HOSPITAL FUND.		
Receipts.....	763 00	
Disbursements.....		68 00
Balance		695 00
INFIRMARY FUND.		
Receipts.....	41,674 37	
Disbursements.....		3,571 51
Balance... ..		38,102 86

POLICE COURT FUND.		
Receipts.....	\$ 1,124 38	
Disbursements.....		\$ 644 89
Balance.....		\$ 479 49
POLICE DEPARTMENT FUND.		
Receipts	20,004 80	
Disbursements.....		1,002 37
Balance.....		19,002 43
STREET FUND.		
Receipts.....	13,832 42	
Disbursements.....		909 16
Balance.....		12,923 26
SANITARY FUND.		
Receipts.....	3,050 00	
Disbursements.....		491 49
Balance.....		2,558 51
WATER WORKS FUND.		
Receipts.....	86,476 86	
Disbursements.....		27,138 08
Balance.....		59,338 78
LIGHTING FUND.		
Receipts.....	18,000 00	
Disbursements.....		11,926 18
Balance.....		6,073 82
PARK FUND.		
Receipts.....		3,021 80
STREET INTERSECTIONS.		
Receipts.....		4,000 00

REPORT OF THE CITY TREASURER.

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DREDGING FUND.		
Receipts.....	\$ 1,002 48	
Disbursements.....		\$ 10 28
Balance.....		\$ 992 20
SEWER DISTRICT NO. 15.		
Receipts.....	26,631 42	
Disbursements.....		38 33
Balance.....		26,593 09
CEMETERY FUND.		
Receipts.....		1,765 97
EUCLID AVENUE REPAVING.		
<i>Case to Willson.</i>		
Receipts.....	456 56	
Disbursements.....		86 14
Balance.....		370 15
VIADUCT SINKING FUND.		
Receipts.....		389 75
WILLOW STREET BRIDGE.		
Receipts.....		125 00
UNAPPORTIONED FUND.		
Receipts from Kaufman Hays, acting Treasurer.....		416 81
INTEREST FUND.		
Receipts.....	53,523 29	
Disbursements.....		12,750 00
Balance.....		40,773 29
FRANKLIN AVE. REPAVING.		
<i>Circle to Waverly.</i>		
Receipts.....	486 24	
Disbursements.....		384 62
Balance.....		101 62

REPORT OF THE CITY TREASURER.

VIENNA STREET GRADING.			
Receipts.....			\$ 7 14
SIBLEY STREET GRADING.			
<i>Perry to Sterling.</i>			
Receipts.....			9 92
TAX REFUNDING (OLD) ACCOUNT.			
Receipts.....			1 03
Total.....			\$309,527 40
Cash in Depository January 1, 1889			\$274,687 73

DR.

MARKET FUND.			
Receipts.....	\$ 1 00		
Disbursements.....		\$ 285 20	
Overdrawn.....			\$ 284 20
SEWER DISTRICT No. 5.			
Disbursements.....			13 60
SEWER DISTRICT No. 12.			
Disbursements.....			68 35
SEWER DISTRICT No. 1.			
Disbursements.....			78 95
PAYNE AVENUE GRADING.			
Disbursements.....			2,081 38
ELEVATED ROADWAY.			
Receipts.....	10,000 00		
Disbursements.....		14,362 83	
Overdrawn.....			4,362 83
PERRY STREET REPAVING.			
<i>Prospect to Cedar.</i>			
Receipts.....	407 94		
Disbursements.....		717 42	
Overdrawn.....			309 48
BROADWAY REPAVING.			
<i>Union to Meade.</i>			
Receipts.....	1,302 74		
Disbursements.....		2,605 48	
Overdrawn.....			1,302 74

SENECA STREET BRIDGE.			
Receipts.....	\$ 13,277 14		
Disbursements.....		\$ 13,277 14	
KENNARD STREET PAVING.			
<i>Prospect to Euclid.</i>			
Disbursements.....			\$ 1,623 14
SIBLEY STREET PAVING.			
<i>Hayward to Cedar.</i>			
Disbursements.....			3,304 26
HAYWARD STREET PAVING.			
<i>Prospect to Cedar.</i>			
Disbursements.....			458 04
NORWOOD STREET GRADING.			
<i>Luther to Hough.</i>			
Disbursements.....			929 22
NORWOOD STREET GRADING.			
<i>Superior to Luther.</i>			
Disbursements.....			194 69
BROOKFIELD STREET GRADING.			
Disbursements.....			188 33
SOUTH BELL AVENUE GRADING.			
Disbursements.....			129 02
STREATOR STREET GRADING.			
<i>Euclid to Cedar.</i>			
Disbursements.....			97 42
TILDEN AVENUE GRADING.			
Disbursements.....			588 20
LINCOLN AVENUE GRADING.			
<i>Euclid to Cedar.</i>			
Disbursements.....			717 35

GENESEE AVENUE CURBING. <i>Euclid to Hough.</i>			
Disbursements.....			\$ 539 78
IRVING STREET GRADING.			
Disbursements.....			40 50
BELMONT STREET GRADING			
Disbursements.....			407 16
FLORENCE STREET GRADING.			
Disbursements.....			440 00
LODGE AVENUE GRADING.			
Disbursements.....			249 00
WAVERLY AVENUE SEWER. <i>Bridge to Lorain.</i>			
Disbursements.....			1,045 96
COURTLAND STREET SEWER. <i>Franklin to Waverly.</i>			
Disbursements.....			1,904 95
RESERVOIR STREET GRADING.			
Disbursements.....			143 21
SYKORA STREET GRADING.			
Disbursements.....			107 68
PRAME STREET GRADING.			
Disbursements.....			40 09
WILLETT STREET SEWER. <i>Monroe to Lorain.</i>			
Disbursements.....			1,327 41
EAST MADISON AVENUE SEWER. <i>Lake to Lena.</i>			
Disbursements.....			3,252 96

BOLTON AVENUE SEWER.			
<i>Hough to Euclid.</i>			
Disbursements.....			\$ 459 23
HOUGH AVENUE SEWER.			
<i>Genesee to Bolton.</i>			
Disbursements.....			690 84
CHATHAM STREET SEWER.			
<i>Mechanic to Willett.</i>			
Disbursements.....			26 48
TAYLOR STREET GRADING.			
<i>Franklin to Bridge.</i>			
Disbursements.....			628 54
OREGON STREET GRADING.			
Disbursements.....			495 95
PELTON AVENUE SEWER.			
<i>Cliff to Starkweather.</i>			
Disbursements.....			185 08
MIAMI ALLEY PAVING.			
Disbursements.....			97 34
MAYFLOWER STREET GRADING.			
Disbursements.....			85 89
ST. CLAIR STREET GRADING.			
<i>Madison to Becker.</i>			
Disbursements.....			191 83
EAST MADISON AVENUE SEWER.			
<i>Euclid to Woodland.</i>			
Disbursements			5,748 59
Total.....			\$ 34,839 67
Balance in Depository January 1, 1889.....			\$274,687 73
			\$309,527 40

Fourth Subdivision of Report.

RECEIPTS.

Sundry and various checks, all signed B. D. Babcock, mayor, and endorsed J. L. Athey, auditor, with the words "Axworthy Fund" written across the face of each, aggregating as follows:

Cleveland National Bank.....	\$19,535 37
Ohio National Bank.....	15,986 80
Union National Bank.....	8,467 09
National Bank of Commerce.....	4,819 33
Mercantile National Bank.....	60,900 05

\$109,108 64

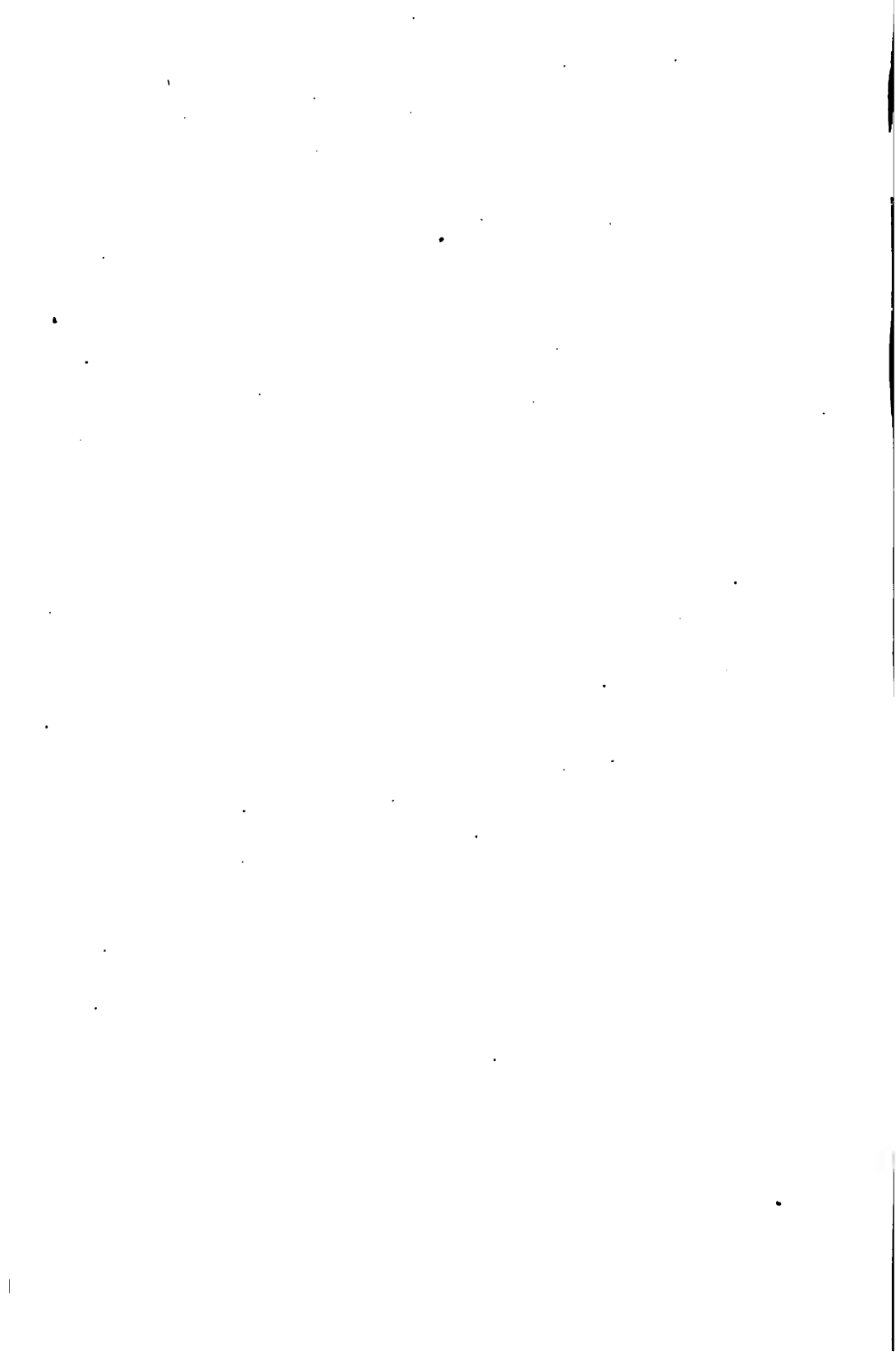
DISBURSEMENTS.

Broadway Repaving—Union to Mead Fund.....	\$ 142 88
Lodge Ave. Grading Fund.....	21 25
Chatham Street Sewer Fund.....	9 93
Streator Ave. Grading Fund.....	25 00
Sago Street Sewer Fund.....	137 88
Willett Street Sewer Fund.....	63 94
Sibley Street Paving Fund.....	81 00
Kennard Street Paving—Euclid to Cedar Fund.....	21 75
South Bell Ave. Grading Fund.....	27 50
E. Madison Ave. Sewer—Lena to Lake Erie Fund.....	78 75
Seneca Street Bridge Fund.....	298 25
Walton Street Sewer Fund	94
Waverly Ave. Sewer Fund.....	43 50
Euclid Ave. Repaving—Case to Willson Fund.....	777 70
Genesee Street Grading Fund.....	15 00
Dibble Street Grading Fund.....	3 00
Norwood Street Grading—South of Luther Fund	33 00
Payne Ave. Grading Fund.....	15 00
Tilden Street Grading Fund.....	9 00
Willey and Tracy Streets Sewer Fund.....	94
Smith Alley Sewer Fund.....	94
Brookfield Street Grading—Euclid to Hough Fund.....	5 85
Mayflower Street Grading Fund.....	21 25
Florence Street Grading Fund.....	20 00
Lincoln Ave. Grading Fund.....	17 50
Belmont Ave. Grading Fund	12 50
Sibley Street Paving—Hayward to Case Fund.....	9 75
Sewer District No. 1 Fund.....	7 20
Sewer District No. 7 Fund.....	34 76
Sewer District No. 9 Fund.....	7 50
Sewer District No. 10 Fund.....	8 40
Sewer District No. 11 Fund.....	14 70
Sewer District No. 12 Fund.....	27 83
Sewer District No. 15 Fund	34 50
Sewer District No. 16 Fund.....	11 93
Sewer District No. 17 Fund.....	3 83
Waverly Ave. Sewer—Bridge to Lorain Fund.....	2,871 20
Bridge Fund.....	50 00

REPORT OF THE CITY TREASURER.

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Tax Refunding (Old Acc'ts) Fund.....	\$ 1 03
House of Correction Fund.....	2,709 36
Street Fund.....	4,480 81
Elevated Roadway Fund.....	5,119 91
Dredging Fund.....	312 97
Lighting Fund.....	8,460 27
Market Fund.....	752 70
Police Court Fund.....	914 83
Sanitary Fund.....	2,110 51
Police Fund.....	20,526 78
Park Fund.....	1,031 39
Fire Department Fund.....	17,123 70
Infirmity Fund.....	4,802 77
Cemetery Fund.....	3,585 74
General Fund.....	13,748 96
	\$ 90,657 58
Street Pay Roll Ending Nov. 15, 1888.....	4,063 75
	\$ 94,721 33
Firemen's Relief Pay Roll Nov., 1888 (Bal.).....	421 00
Firemen's Relief Pay Roll Dec., 1888.....	598 00
Police Pension Pay Roll Nov., 1888.....	541 58
Sundry Warrants Public Library Board.....	2,194 45
	3,755 03
	98,476 36
Balance on hand Jan. 1st, 1889.....	10,632 28
	\$109,108 64



Report of Infirmary Department.



INFIRMARY DEPARTMENT.

1888.

DIRECTORS.

WM. J. McKINNIE, President,
BOLIVAR BUTTS,
EDWARD MOLONY,
GUSTAVE TIELKE,
GEORGE W. GARDNER.

CLERK OF THE BOARD.

L. S. O'NEIL.

SUPERINTENDENT.

L. F. MELLEN.

To the Honorable Mayor and City Council of the City of Cleveland :

GENTLEMEN :—Herewith find the Annual Report of the Superintendent of the Infirmary Department for the year ending December 31, 1888.

Respectfully submitted,

BY ORDER OF THE BOARD OF INFIRMARY DIRECTORS.

ANNUAL REPORT

OF THE

Superintendent of the Infirmary Department.

In a growing, manufacturing city like Cleveland, and especially with the increase in population, there will be a constant necessity for supplying the wants of the dependent poor. Many of the applicants for charity, as will be seen by this report, are sick and disabled, and there is a very large list of widows, and grass widows who cannot support their families without aid from some source. The Infirmary Department with the Associated Charities of the city, and the various benevolent organizations are doing a great work, and, perhaps, all that is necessary for the care of the needy poor, but a constant pressure is made for relief on the part of many who no doubt think they are deserving of charity, but ought to be encouraged to provide for themselves. The only way to ascertain the real condition of these applicants is to investigate them at their homes and see if it is not possible for them to work for their living, or secure work for them.

“Whoever gives a loaf of bread or a dollar in money to him who is able, without requiring of him labor in return, starts him directly on his way to pauperism.”

Idleness and drink are the causes of a large part of the poverty, suffering and crime, but it is necessary that the city should spend money to provide for all such, using the most practical and economical methods.

INFIRMARY DEPARTMENT FUND.

RECEIPTS.

Cash on hand January 1, 1888	\$ 44,884 43
Received from the Dow Law Tax	57,408 64
Received from County, for care and expense of non-resi- dents	12,850 99
Received at Infirmary Office and paid into City Treasury	7,658 61
Received from City Clerk, Licenses, etc.	6,726 00
Warrants credited back	74 12
Total	<u>\$ 129,602 79</u>

DISBURSEMENTS.

Ordinary Expenses, City Infirmary	\$ 44,001 12
Ordinary Expenses, Out-Door Relief	26,009 56
Permanent Improvements, Sewer, etc.	2,685 26
Permanent Improvements, Expended on New Hospital under Construction	52,981 18
Total	<u>\$ 125,677 12</u>
Balance to credit of Infirmary Fund January 1, 1889. . .	\$ 3,925 67
	<u>\$ 129,602 79</u>

It will be seen by the above financial statement that there is but a small amount of money to the credit of the Infirmary Fund, and the bills for the month of December, 1888, are not included in the statement of expenses.

The Infirmary Department has been omitted from the tax levy for the last two years, and nothing has been received from the city taxes, depending upon the Dow Law liquor tax to furnish the means for its support.

The annual liquor tax assessments are made during the month of May. Last year there were, at the beginning of the year, 1,297 saloons in the city assessed at \$250 each, which would have produced a fund of \$324,250. But the law allows saloon-keepers to discontinue business at any time during the year after the assessment is made, so that the whole tax for the year is not collected. It costs about 2 per

cent. for assessing and collecting the taxes, 20 per cent. of the whole amount goes to the State, and only one-fourth of the balance is paid to the Infirmary Fund. With a prospect of a falling off in the number of saloons, we may not expect more than 1,200 who will pay the tax in 1889, which would furnish an income to the Infirmary Department of less than \$60,000, which, with the increased expenses of the new Hospital, would not be sufficient. There should be a tax levy for 1889 of not less than \$30,000 for the City Infirmary Department, which will be needed before the taxes are collected.

OUT-DOOR RELIEF.

The records of the Out-Door Relief show that supplies of Groceries, Coal, etc., were given out to seventeen hundred and one different families in 1888, as against seventeen hundred and sixty-five in 1887. Most of these families, or persons, were continued through the year, some through the winter months only, and some obtained "temporary" relief. They were as follows:

	1887.	1888.
Married.....	674	619
Widows	630	615
Grass Widows (or deserted wives).....	312	370
Widowers.....	77	41
Grass Widowers.....	4	3
Single	68	53
Total.....	1765	1701

A record is kept of those receiving out-door relief, showing the number in each Ward, as follows:

Ward.	1887.	1888.
1.....	232	248
2.....	38	37
3.....	27	28
4.....	61	69
5.....	81	111

Ward.	1887.	1888.
6.....	21.....	14
7.....	35.....	28
8.....	40.....	36
9.....	67.....	57
10.....	17.....	14
11.....	15.....	7
12.....	13.....	11
13.....	25.....	28
14.....	19.....	14
15.....	19.....	9
16.....	77.....	98
17.....	63.....	57
18.....	18.....	12
19.....	14.....	9
20.....	17.....	19
21.....	19.....	14
22.....	19.....	18
23.....	22.....	16
24.....	93.....	96
25.....	20.....	19
26.....	42.....	37
27.....	26.....	20
28.....	127.....	143
29.....	74.....	76
30.....	26.....	22
31.....	14.....	8
32.....	28.....	21
33.....	25.....	17
34.....	89.....	95
35.....	21.....	16
36.....	49.....	47
37.....	62.....	65
38.....	35.....	34
39.....	37.....	28
40.....	38.....	23
Total in 40 Wards		1701

The following shows the nativity of the heads of families receiving out-door relief:

	1887.	1888.
United States.....	383	336
Ireland	544	557
Germany.....	420	384
Bohemia.....	135	142
England	118	96
Canada	43	46
Hungary.....	27	32
Poland.....	22	23
Scotland	17	16
Switzerland.....	9	9
Holland.....	4	4
Wales.....	5	9
Prussia.....	0	1
Austria	7	12
Russia.....	6	6
France.....	4	4
Sweden.....	3	5
Australia.....	1	1
Denmark.....	2	1
Italy.....	13	15
Norway.....	1	1
Spain.....	1	0
Turkey.....	0	1
Total	1765	1701

Statement showing total issues of groceries for out-door relief for the years 1887-8.

	1887.		1888.	
Flour.....	164,911	Lbs.	174,195	Lbs.
Corn Meal	4,194	"	3,339	"
Beans	6,979	"	4,837	"
Tea.....	4,339	"	4,829	"
Coffee.....	5,741 $\frac{1}{4}$	"	5,256 $\frac{1}{2}$	"
Rice	6,295	"	6,013	"
Oat Meal.....	6,319	"	6,521	"
Sugar.....	17,304	"	19,097	"
Peas.....	2,500	"	1,740	"
Soap.....	7,088	"	7,119	"
Barley.....	2,552	"	2,085	"

In addition to the distribution of Groceries at the Out-Door Relief Office, the following orders were given:

	1887.	1888.
Coal Delivered, tons.....	3,375	2,972
Railroad Passes.....	589	572
Meat Orders (for the sick).....	35	30
Shoe Orders, pairs.....	118	70
Burial and Grave Orders	189	198
Coffins Furnished Extra.....	85	70
Work Orders—to the Infirmary.....	1,956	1,724
Investigations of Families.....	2,683	2,952

THE CITY INFIRMARY.

It will be seen by the Steward's Report that there has been a slight decrease in the average number of inmates during the past year. The average for 1887 was 469, and for 1888, 465 $\frac{237}{388}$, and yet on the 31st of December, 1888, the total number was 523.

THE MIDDLE DEPARTMENT.

This department is the most crowded, and especially during the Winter months, and can only be relieved when the Hospital patients are transferred to the new Hospital. There were in this department at the close of the year 106 men, and 45 women. These are mostly old people, having no homes, or friends to care for them.

THE INSANE DEPARTMENT.

There are accommodations for at least 400 inmates in this department, and it will not be many years until it is filled, unless the State enlarge their asylums or make provision for their support elsewhere. The insane are "wards of the State," and as such the State should provide for their support, either in State Asylums, or pay for their care in the Infirmary.

THE HOSPITAL DEPARTMENT.

During a part of the year there has not been convenient room enough for the care of patients in this department. At the close of the year the numbers were, males, 67, females, 48, total, 115. The new City Hospital under construction, when completed will accommodate 150 patients; and all Hospital patients remaining in the Infirmary will be transferred to the new Hospital. The building is located on the Infirmary grounds, having a frontage of 289 feet, with two wings running back 128 feet each. The plan of the Hospital, with its arrangement of rooms and apartments, its system of heating and ventilation, will make it a model Hospital.

The following is the annual census of the City Infirmary as reported by the steward:

	Males.	Females.	Total.
Number remaining January 1st, 1888.....	282	211	493
“ admitted during the year.....	274	152	426
“ births during the year.....	6	4	10
Total.....	562	367	929
Number discharged during the year.....	189	113	302
“ died during the year.....	66	38	104
“ remaining January 1st, 1889.....	307	216	523
Total.....	562	367	929

Daily average for the year, $465\frac{337}{868}$.

The daily average for the month of December, 1888, was $503\frac{1}{81}$, and the number remaining at the end of the year was 523, classified as follows:

	Males.	Females.	Total.
Insane Department.....	134	123	258
Hospital Department.....	67	48	115
Middle Department.....	106	45	151
Total.....			523

REPORT OF INFIRMARY DEPARTMENT.

TABLE SHOWING AGE, CAUSE, AND NATIVITY OF
PAUPERS FOR TWELVE MONTHS.

AGE.	On hand at begin- ning of Year.	Received, etc., during Year.	Discharged, etc., during Year.	Remain- ing at end of Year.
Number under five years old.....	0	10	9	1
Number between five and sixteen years old..	1	3	2	2
Number between sixteen and sixty.....	350	100	125	325
Number over sixty.....	142	185	132	195
(Six inmates are over 80 years of age ; one 96, and one 98 years old.)	493	298	268	523
CAUSES OF PAUPERISM.				
Number of insane inmates.....	271	47	68	250
Number of epileptic inmates.....	15	0	0	15
Number of idiotic inmates.....	8	0	0	8
Number disabled by old age.....	101	60	24	137
Number disabled by disease.....	85	153	139	99
No. disabled by loss of member or members..	5	0	0	5
Number disabled by deformity.....	0	0	0	0
Number disabled by blindness.....	8	1	0	9
Number of lying-in cases during the year....	0	10	10	0
	493	271	241	523
NATIVITY.				
Number of inmates of native birth.....	200	165	155	210
Number of inmates of foreign birth.....	293	190	170	313
Number of inmates who have not a legal settlement in the county.....	493	355	325	523
	54			

PHYSICIANS' REPORT.

HOSPITAL DEPARTMENT FOR 1888.

	Males.	Females.	Total.
Number remaining January 1st, 1888.....	52	36	88
“ received during the year.....	211	130	341
Born during the year.	5	8	13
Total.....	268	174	442

REPORT OF INFIRMARY DEPARTMENT.

527

	Males.	Females.	Total.
Discharged, cured or improved during the year..	150	106	256
Died during the year.....	51	26	77
Remaining January 1st, 1889.....	67	42	109
Total.....	268	174	442

Treated as office cases, or for temporary ailments an average of 76 per week.

Number of prescriptions written and filled during the year 6,800.

The deaths which occurred during the year were from the following causes :

	Male.	Female.	Total.
Bright's Disease.....	4	3	7
Typhoid Fever.....	1	..	1
Cancer.....	3	2	5
Pneumonia.....	2	1	3
Phthisis (Consumption).....	14	6	20
Septicemia.....	3	2	5
Old Age.....	6	5	11
Heart Disease.....	5	3	8
Enteritis.....	2	1	3
Apoplexy.....	5	2	7
Cerebral Concussion.....	1	..	1
Pott's Disease.....	1	..	1
Dysentery.....	1	1	2
Cholera Infantum.....	1	..	1
Cerebral Syphilis.....	1	..	1
Cirrhosis.....	1	..	1
Total.....	51	26	77
Died in Insane Department during year.....	14	14	28

CAUSES OF DEATH.

Chronic Mania.....	12	7	19
Apoplexy.....	1	3	4
Epilepsy.....	1	3	4
Acute Mania.....	..	1	1
Total.....	14	14	28

The following is a statement of provisions purchased for Infirmary this year and last:

	1887.	1888.
Flour, lbs.....	131,320	128,660
Corn Meal, ".....	3,922	.....
Beans, ".....	4,756	3,129¾
Tea, ".....	2,646	2,679¾
Coffee, ".....	3,184	3,631
Rice, ".....	3,802	3,821
Sugar, ".....	19,068	19,970
Oat Meal, ".....	4,681	5,000
Barley, ".....	1,540	1,540
Soap, bars.....	11,669	13,523
Potatoes, bushels.....	1,394.2	396.18
Meat, lbs.....	105,999½	113,610
Butter, lbs.....	7,249½	7,312
Eggs, doz.....	3,743½	4,917
Fish, lbs.....	9,186½	10,337
Coal, tons.....	2,124.180	1,378.1550
Cheese, lbs.....	9,036	9,599
Peas, bushels.....	36.40	.....

Also apples, dried apples, prunes, canned fruits, lemons, jellies, preserves, raisins, currants and other cooking materials.

THE BAKERY.

Total number loaves of Wheat Bread baked during the year, 68,123.

The number each month is as follows:

	1887.	1888.
January.....	6,291	6,629
February.....	5,592	6,192
March.....	6,348	6,057
April.....	5,606	5,106
May.....	5,719	5,637
June.....	5,791	5,149
July.....	5,364	5,128
August.....	5,315	4,116
September.....	5,075	5,147
October.....	6,326	5,806
November.....	6,320	5,866
December.....	6,946	6,290
Total.....	71,693	68,123

Biscuits, 2,543 dozen, besides Gingerbread, Pies, Cake, etc., furnished once per week.

There were 1,002 pairs shoes and slippers furnished to the Infirmary, and 415 hats, besides clothing and material made up into clothing.

SEAMSTRESS DEPARTMENT.

Articles Made.	Number.
Coats.....	37
Vests.....	56
Pairs Pants.....	348
Over Shirts.....	154
White Shirts.....	652
Overalls.....	63
Skirts.....	234
Sheets.....	574
Pillow Cases.....	529
Dresses.....	203
Bed Ticks.....	133
Bed Comforts.....	118
Chemise.....	331
Aprons.....	123
Suspenders.....	99
Towels.....	367
Night Gowns.....	29
Drawers.....	46
Sacques.....	10
Waists.....	13
Napkins.....	48
Table Cloths.....	39
Pillow Ticks.....	80
B. Caps.....	1
Mattresses.....	12
Bed Cloths.....	18
Straight Jackets.....	19
Curtains.....	8
Fly Screens.....	7
Napkins.....	12
Sun Bonnets.....	6

A large number of articles for the use of the Infirmary have been made during the year in the Blacksmith's shop, the Carpenter's shop, the Tin Smith's shop, and the Shoe Maker's shop, including 32 new Iron Bedsteads, over 500 Tin Dishes, 150 Water Pails, 200 Night Buckets, 44 Coffins, 14 Commodes, etc., besides a large amount of repair work in each shop.

FARM REPORT FOR 1888.

CROPS RAISED AND THEIR VALUE.

1124	Bushels of large Potatoes	@ 40 c.	\$ 449 60
73	" small "	@ 20 c.	14 60
415	" White Turnips	@ 35 c.	145 25
125	" Rutabagas	@ 40 c.	60 00
243	" Mangel Wurzel	@ 30 c.	72 90
257	" Carrots	@ 40 c.	102 80
103	" Beets	@ 35 c.	30 05
67	" Parsnips	@ 60 c.	70 20
1133	" Sound Corn	@ 45 c.	509 85
118	" Small Corn	@ 20 c.	23 60
300	" Oats	@ 33 c.	99 00
37	Tons of Hay	@ \$ 14.	518 00
7	" Straw	@ \$ 8.	56 00
2135	Bundles Corn Stalks	@ 4 c.	85 40
107	Hubbard Squash	@ 6 c.	6 42
31	Loads Pumpkins	@ \$ 2.	62 00
13,758	Heads Cabbage	@ 4 c.	30 32
37	Bushels Apples	@ 50 c.	17 50
	Cucumber Pickles		76 00
	Green Peas and Beans		62 00
7935	Gallons Milk	@ 20 c.	1,597 00
Total			\$4,108 49

FARM STOCK SOLD DURING THE YEAR.

127	Pigs	\$526 50
1	Cow	22 50
6	Calves	19 00
1	Horse	30 00
Total		\$ 598 00

STOCK BOUGHT DURING THE YEAR.

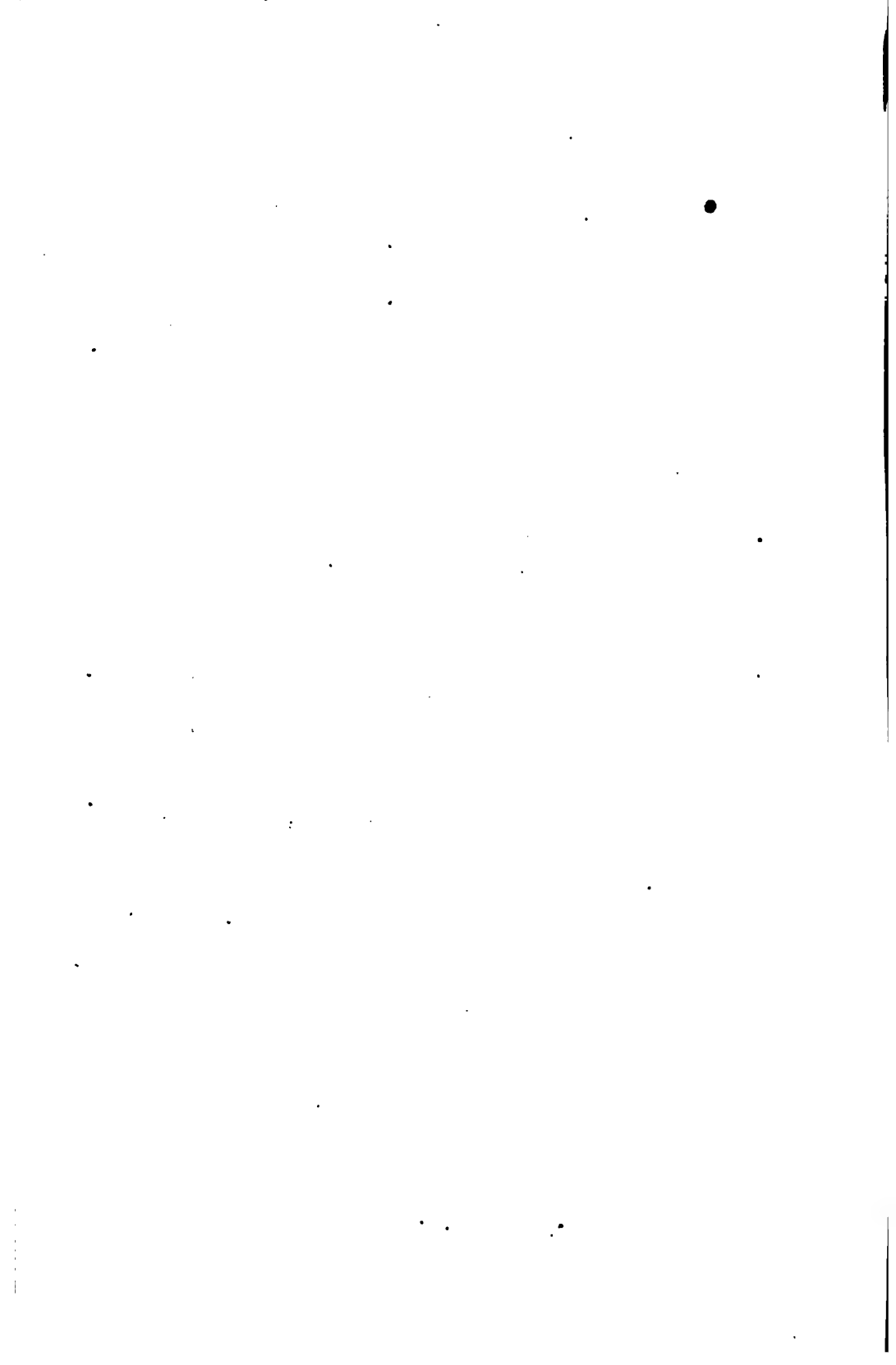
2 Cows.....	\$110 00
1 Horse	175 00
2 Horses and Harness	350 00
Total.....	\$ 635 00

FARM STOCK ON HAND.

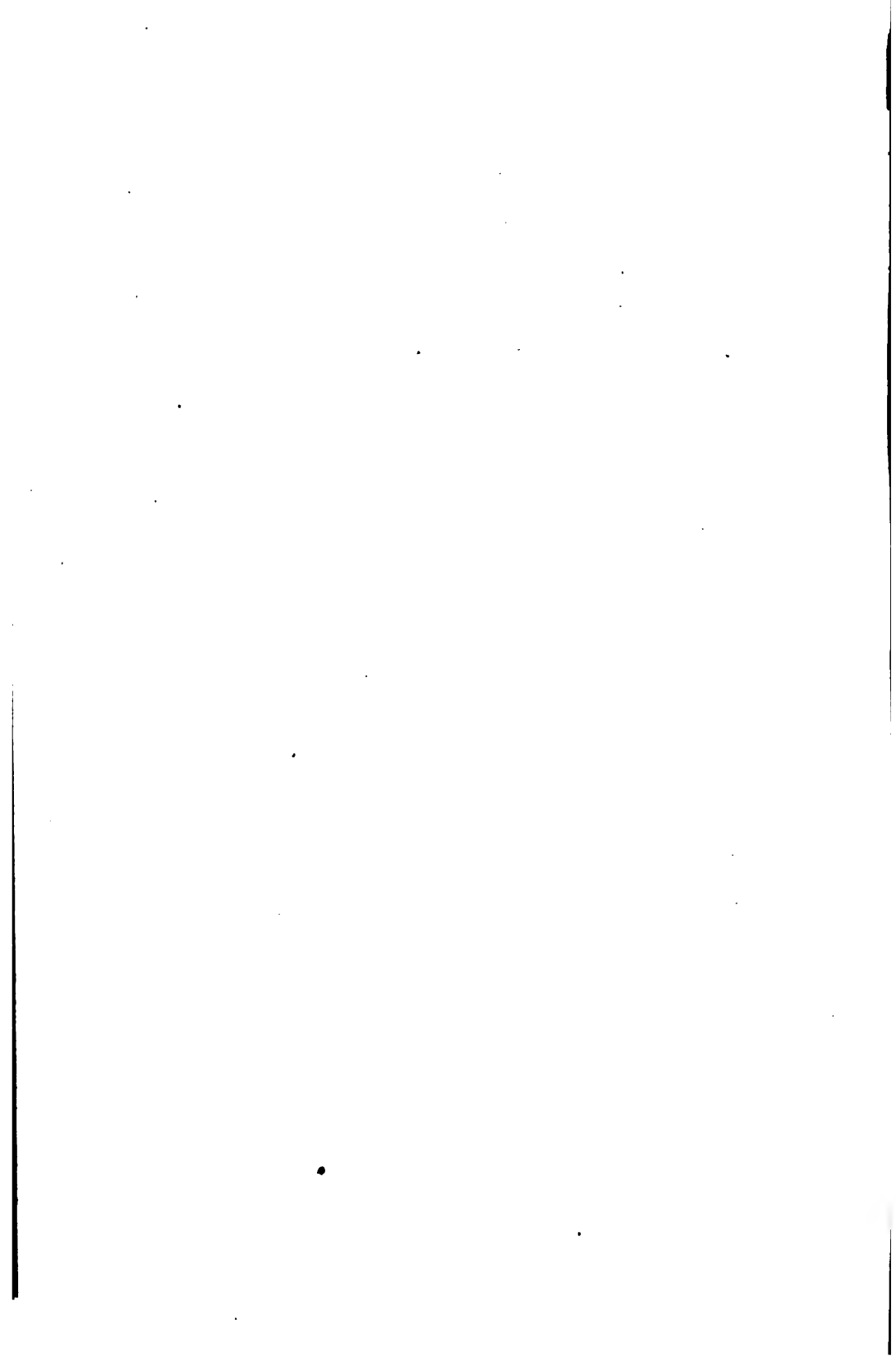
8 Horses,	@ \$150 00.....	\$1,200 00
9 Cows,	@ 45 00.....	405 00
64 Small Pigs,	@ 3 50.....	224 00
15 Breeding Sows,	@ 10 00.....	150 00
1 Boar Pig,	.....	9 00
2 Yearling Heifers, @	20 00.....	40 00
* Total		\$2,028 00

It will be seen that the product of the Infirmary farm is considerable and furnishes a large supply of eatables. The work is done by the inmates, and much more could be produced if there was more land suitable for raising farm produce. The consumption of these products will be increased in the future in the supply of the new Hospital, and it would be desirable in order to meet this demand to rent, or purchase additional land and thereby give the inmates of the Infirmary more employment.

INVENTORY.	Last Year.	This Year.
Estimated value of land, 85 acres @ \$500 per acre.....	\$ 42,500 00	\$ 42,500 00
Estimated value of buildings.....	230,907 50	295,028 68
Estimated value of furniture and fixtures.....	12,476 24	13,358 27
Estimated value of machinery and tools.....	8,000 00	8,550 00
Estimated value of live stock.....	1,731 00	2,028 00
Estimated value of other property.....	2,500 00	2,500 00
Total amount of inventory.....	\$307,114 74	\$363,964 95



Report of the Hospital Commission.



Report of the Hospital Commission.

To the Honorable Common Council :

GENTLEMEN :—The Commission, hampered by the insufficiency of funds, has not been able to satisfactorily respond to the appeals for aid and relief that have been made by the unfortunate sick and disabled during the past year. At times our resources were entirely exhausted, and our work had to be temporarily abandoned. This discouraging state of affairs will, however, be undoubtedly remedied hereafter, as the transfer of the peddlers' license money and the increase in the tax levy will triple the size of the fund for the ensuing year.

Below is given a brief resume of the business transacted during 1888.

There were six cases left over from 1887. During 1888 there were admitted to the various hospitals the following number of patients, for whose care the Commission paid at the rate of one dollar per day : In January, 12 ; February, 13 ; March, 19 ; April, 10 ; May, 15 ; June, 15 ; July, 7 ; August, 12 ; September, 20 ; October, 18 ; November, 8 ; December, 10 ; total, 159.

RECEIPTS.

Cash on hand January 1, 1888	\$ 409 51
Taxes.....	2,870 68
License money.....	1,052 00
Warrants credited back.....	49 00
	\$ 4,381 19

* DISBURSEMENTS.

Cleveland City Hospital.....	\$ 1,629 00
Charity Hospital.....	1,365 00
Huron Street Hospital.....	117 00
Hogan & Harris	315 00
Cleveland Printing & Publishing Co.....	3 99
	\$ 3,429 00

Balance on hand December 31, 1888..... \$ 951 20

*November and December bills not included.

Respectfully submitted,

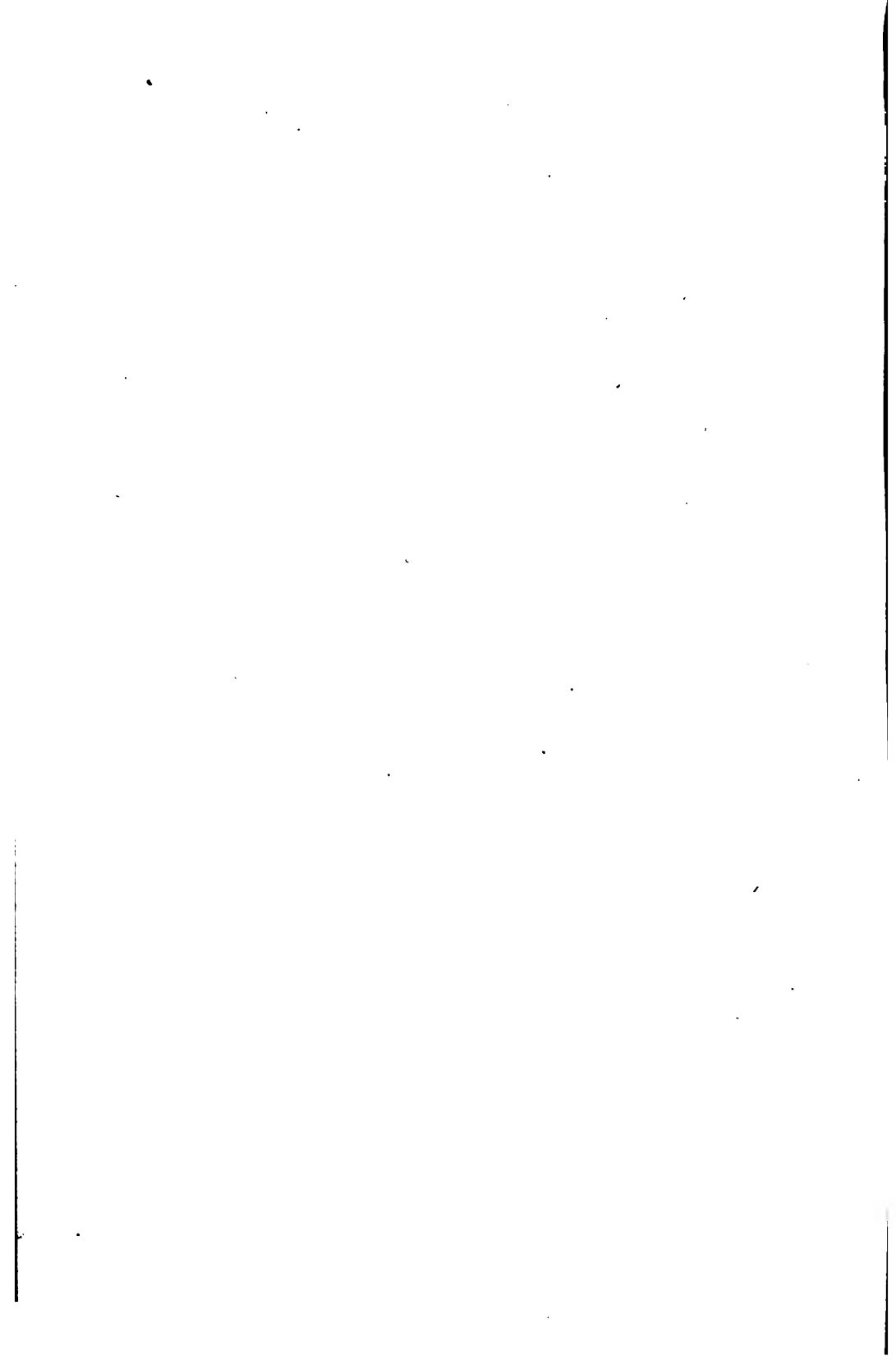
H. R. GROFF,
JOHN HOLLAND,
RICHARD GEARY,

Hospital Commission.

CHAS. P. SALEN,

Clerk.

Report of the Park Commissioners.



Report of the Park Commissioners.

OFFICE OF THE PARK COMMISSIONERS, }
CLEVELAND, OHIO, January 21st, 1889. }

To the Honorable Common Council:

GENTLEMEN:—During the year just closed the sum of \$25,602.71 has been expended for park purposes, being \$1,560.86 in excess of the aggregate receipts. Of the expenditures \$15,465.11 was for salaries and labor, \$4,654.23 for maintenance other than labor and \$5,483.37 for permanent improvements.

The permanent improvements added during the year include a boat house upon the lake and a pavilion in the picnic grounds in Wade Park; a fountain in South Side Park; new walks in Monumental and Clinton Parks and Franklin Circle; the laying of 1,462 feet of drain and sewer pipe and placing of 16 additional catch basins in Wade Park; improving, grading and planting of the space heretofore known as Mariposa Place, now designated by ordinance as Sterling Place, and the fencing in of the triangular area formed by the junction of Superior and Muirson Streets and Payne Avenue. The stone foundations for an iron bridge in Wade Park have also been laid and the bridge will be completed early in the year.

The report of the Secretary shows the condition of the fund and the distribution of the expenditure.

The report of the Superintendent of Wade Park gives in detail the work accomplished during the year.

Your attention is again directed to the insufficiency of the means provided by your honorable body for park purposes. The revenue for the current year is inadequate to meet the cost of maintenance, necessitating a reduction in the force of employees below the requirements for the proper care and protection of the property. The exercise of the same care and caution which has always been given to every contract entered into, every obligation incurred and every expenditure made will not enable us to creditably maintain the parks with the means at our command. No floral or other seasonable adornments of any kind can be attempted; no repairs, however necessary, can be made and the lawns, trees and shrubbery must be left largely to care for themselves.

For every expenditure made during the past year the Commissioners are satisfied that they have received the money's worth, and an examination of the accounts gives ample evidence of proper care in the purchase of supplies at fair prices.

Your Commissioners ask that the appropriation for the year 1890 be considerably increased over that of 1889.

Respectfully submitted,

A. H. STONE,

President.

Secretary's Report.

OFFICE OF THE PARK COMMISSIONERS, }
CLEVELAND, OHIO, January 4th, 1889. }

To the Honorable Commissioners :

GENTLEMEN:—The following is an exhibit of the receipts and disbursements for park purposes for the year ending December 31st, 1888 :

DR.

Receipts from Taxes.....	\$23,706 40
Receipts from miscellaneous sources.....	835 09
	\$24,041 85

CR.

Amount overdrawn January 1, 1888.....	1,373 40
Disbursements in 1888.....	25,602 71
	26,976 11
Overdrawn January 1, 1889.....	2,934 26

The disbursements for the year were :

Accounts, Salaries and Labor.....	15,465 11
Account maintenance	4,654 23
Account permanent improvements.....	5,483 37

The disbursements were distributed as follows:

	Salaries and Labor.	Mainten- ance.	Permanent Improve't.	Totals.
General Office Account.....	\$ 500 08	\$ 131 35	.....	\$ 631 38
Wade Park.....	8,588 56	1,248 03	2,905 89	12,742 48
Monumental Park.....	1,561 75	1,815 72	841 05	4,218 52
Lake View Park.....	2,159 65	521 31	.....	2,680 96
Clinton Park	718 67	70 94	381 09	1,170 70
Franklin Circle.....	704 10	198 74	309 29	1,212 13
South Side Park.....	945 35	499 88	594 00	2,043 23
Miles Park.....	183 00	107 77	.....	290 77
Sterling Place.....	100 00	60 49	215 99	376 48
Superior Place.....	.....	.....	236 06	236 06
Total.....	\$ 15,465 11	\$ 4,654 23	\$ 5,483 37	\$ 25,602 71

Respectfully submitted,

W. H. ECKMAN,

Secretary.

REPORT OF THE SUPERINTENDENT OF WADE PARK.

CLEVELAND, O., January 15, 1889.

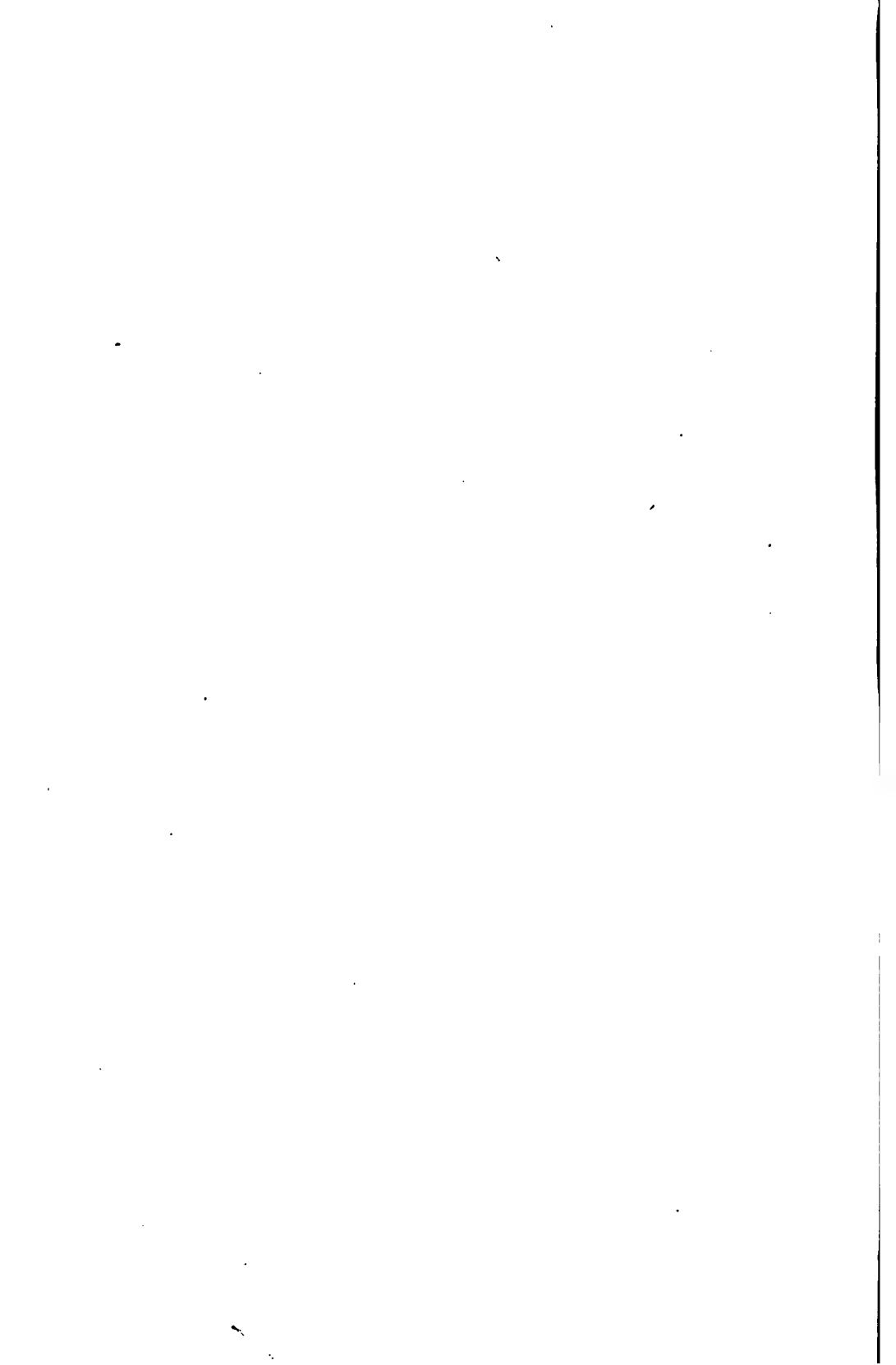
To the Honorable Park Commissioners :

GENTLEMEN :—I herewith submit a report of the work done during the year ending December 31, 1888.

Early in the Spring 7,795 yards of turf were laid, the greater part of which was placed on the Euclid avenue slope. The necessary excavations for the boat house and for the large cesspool were then made. During the year 3,500 yards of gravel and sand have been moved; 462 feet of sewer pipe and 1,000 feet of drain pipe have been laid; 16 catch basins have been built; one-half mile of driveway has been opened and completed; a new wood bridge has been erected on the spring road; 258 perch of stone have been laid; a large number of decayed trees have been removed and many new trees planted; a large number of shrubs have also been replanted; several fine springs of water have been collected and merged into one, around which a rockery has been constructed and conveniences for its use provided. A boat house has been erected, which has been visited by large numbers during the season. A pavilion in the picnic grounds for protection in case of rain has been erected. A dove cote has been set up, and a large flock of doves are now domesticated. A small colony of prairie dogs have been provided with quarters; five deer have been added to the drove, which now numbers seventeen.

C. D. KLOCK,

Superintendent.



Report of the City Civil Engineer.

Report of the City Civil Engineer.

To the Honorable Board of Improvements :

GENTLEMEN :—I herewith submit the report for work in my department for the year ending December 31st, 1888.

The aggregate cost of all work performed under contract is \$1,100,945.38, which is \$276,952.67 or 33½ per cent. greater than that of last year ; this is due mainly to the increase in amount of work done upon the Central Viaduct, recently completed, and to the large increase in the amount of street paving, over the previous year.

STREET PAVEMENTS.

The subjoined tables show a large increase in the amount of street paving laid, over the past two years.

All pavements laid by the city during the year have been of Medina stone, except the wood pavement laid upon the iron portions of the Central and Pearl Street Viaducts. This embraced about 13,341 square yards, laid at an average cost of \$1.14 per square yard, not including flooring.

Three kinds of stone paving have been laid in about the following proportions :

437,125 square feet of Medina block stone pavement, filled with asphaltic cement, at an average cost of 35 cents per square foot.

43,878 square feet of common Medina stone pavement, filled with asphaltic cement, at an average cost of 21¼ cents per square foot.

315,840 square feet of common Medina paving laid with sand or gravel washed into the joints, at an average cost of about 20 cents per square foot.

The aggregate cost of all pavements laid during the year is \$252,116.76, which is \$66,505.41 or 35 8-10 per cent. greater than last year, and 54 8-10 per cent. greater than the amount laid in 1886.

For those streets where the cheaper or common stone pavements are laid, I think there can be no question as to the economy of filling the joints with asphaltic cement, thereby binding the stone together and rendering it watertight, at a cost not greater than 4 cents per square foot additional.

For all heavy traffic streets, and for those where the carriage traffic is very considerable, I believe that block stone alone should be used; where the traffic is likely to be excessive or the soil is unfavorable, I recommend a foundation of broken stone and hydraulic cement, at a probable cost of from 7 to 9 cents per square foot additional.

The pine block pavement used upon our viaducts are not entirely successful as they last only from three to five years before repairs are necessary, but until some better substitute is found, that is equally light, I deem it best to use it and repair or renew it as often as required, as it adds less to the dead load of the structure than the more durable pavements used elsewhere upon our streets.

Firebrick pavements are to be laid upon Genesee Street, between Euclid and Hough Avenues, and upon Bolton Avenue, between Euclid and Cedar Avenues, at an estimated cost of \$19,427.18, and the ordinance is now pending for a similar pavement on Sawtell Avenue, between Woodland Avenue and Julia Street, where a concrete foundation is asked for; the estimated cost of this class of pavements is 17 cents per square foot, on a rolled sand or gravel foundation, and from 24 to 25 cents per square foot with a concrete base.

No brick pavements have as yet been laid by the city. Euclid Place was paved with brick in 1887 and Dorchester Avenue and Park Place were so paved during the present year, all by private parties. These pavements, when properly laid make a smooth, even surface,

give a good foot hold for the horse and are easily cleaned, but their durability I consider as not yet established.

GRADING AND CURBING.

The number of streets graded, or graded and curbed, is nearly 10 per cent. greater than last year, but the mileage and cost are $11\frac{1}{2}$ and $10\frac{1}{2}$ per cent. less, respectively, forty-seven streets have been so improved at a cost of \$39,670.85. Five inch curbing has been almost exclusively used upon the curbed streets during the year, and two rows of 18-inch Medina crosswalks placed at all crossings. I would recommend for future work that the space between the rows of crosswalks be paved with stone, in place of the broken stone filling now used, which is wholly unsatisfactory; I also suggest that in future work the open space between the curb and the flagged walks at the ends of all crosswalks be laid with four foot stone flagging at the same time, as the present practice of relaying old discarded crosswalks, of various widths, in this space, is both unsightly and inconvenient, and should be abandoned, not only on curbed, but on paved streets as well, and the Street Intersection Fund should be increased sufficiently to meet the expense.

COLLECTIONS FOR SPECIAL IMPROVEMENTS.

All work in this department paid for by special levy, which includes Street Grading and Curbing, Paving and Sewers, is greatly hindered and the quality of the work often greatly depreciated by the lateness in the season, when, under the present law the work may be commenced.

No contract can now be approved by the Common Council until the Auditor can certify thereon that there is sufficient money in the City Treasury to the credit of that particular improvement, to pay for the same. The last half of the tax for each improvement is not due until the 20th of June of the following year, and is not turned over to the city for two or three months thereafter, thus the year's work must be done in the remaining three or four months, which, with rare exceptions includes the inclement months, for the completion of much of

the work, and in the case of graded streets, they often continue nearly impassable for the winter. Two or three notable cases in this seasons' work have been reported, where the streets are made worse, rather than better, as the fall rains follow almost immediately upon the completion of the work.

I suggest as a remedy, that the *first* half of each year's special tax be paid in *June* and the *last* half in *December* of the same year, in place of the December and June collections in different years now in force. This, with perhaps the exception of the first year, would make no difference to the tax payer, as the two parts of his tax are equal, but to the city, collection of the last half in December, would give the winter season for letting the work and making contracts, and the entire season could be utilized, giving *eight* months for work in place of *three*, the work would be early completed and the streets well settled for the winter.

There are no less than 95 streets on the list for improvement during the coming year. The last half of the tax for these improvements will not be received or the contracts approved before about September of that year. All of this work will be expected to be completed in the three months following, besides a number of streets to be paved or repaved, if the city shall see fit to issue its bonds or notes in anticipation of the tax now being collected therefor.

It will be simply impossible to perform all this work in the time allowed, in a manner satisfactory either to the city or the tax payer. I therefore recommend that such legislation be asked for as will effect this much needed change.

LEVELS AND CROSS-SECTIONS.

This class of department work, together with a vast amount of labor in this office, is a necessary adjunct to all street improvements, but is not easily represented in any tabular statement, which only reports the number of streets and miles, and not the cost of such work.

One hundred and eleven streets, embracing 34 4-10 miles have been leveled or cross-sectioned during the year.

SEWERS.

During the year plans have been prepared for 19.23 miles of main and local sewers, and 6.43 miles have been constructed at a cost of \$110,244.00.

Among the most important of the main sewers completed during the year are those in Clark Avenue, between Burton Street and the C., C. C. & I. Ry.; in Petrie Street between Broadway and Clay Street; in Scranton Avenue between Holmden Avenue and the southerly city limits; in East Madison Avenue between Euclid and Woodland Avenues—(all these having been commenced in 1887); in Waverly Avenue between Bridge and Lorain Streets and in Courtland Street between Franklin Avenue and Lorain Street.

In October, 1887, an injunction was granted, restraining the city from discharging sewage from Lorain Street, through Swiss Street, into Walworth Run. It became necessary to intercept the sewage from that portion of Lorain lying between Liberty Street and a point 1,800 feet west of Geib Street; this was accomplished by constructing the Courtland Street main, at a cost of \$14,247.54; the sewage of that territory being now diverted from the valley of Walworth Run and carried by way of Courtland and Washington Streets and Waverly Avenue directly to the lake.

The East Madison Avenue main between Lake Erie and Lena Avenue has been completed from the lake to the L., S. & M. S. R'y tracks. It was hoped to have reached St. Clair Street this season, but the delays incident to obtaining right of way from the Railway Company prevented a further advance. When completed this will be the largest sewer in the city, draining an area of more than four square miles.

The matter of sewerage Walworth Run Valley seems at last to have taken definite form; the principal preliminary step, the passage of an ordinance for opening a street through the valley, having already been taken; with the active aid of the Common Council and interested citizens, the work of construction should be well advanced the coming season.

The Cuyahoga River, from a sanitary point of view as regards pollution from sewage and other sources, and threatened danger to our water supply, has received the earnest attention of the "River and Sewer Commission." A large amount of preliminary work has been done under its direction, including necessary surveys and determination of contours for a large section of the city, also extensive and accurate investigations have been made for the determination of lake currents. The results are being compiled and mapped as rapidly as possible, prior to the outlining of a practical remedy.

VIADUCTS AND BRIDGES.

CENTRAL VIADUCT.

This structure has been completed and was opened to travel December 11th, 1888, being two years seven and one-half months from the time ground was first broken. Mr. C. G. Force was City Civil Engineer during the first eleven months of its construction, he having approved of the detail superstructure drawings for the Walworth Run portion, during his time.

The erection of this portion of the bridge was nearly complete and a considerable portion of the masonry of the Main Bridge was in a more or less completed condition at the expiration of his term. The people of the South Side and those interested in this bridge have to thank Mr. Force for the ability and energy with which the project was inaugurated. Also from its inception to its completion too much credit cannot be given to Mr. Wm. M. Hughes for the ability and skill he has displayed in the designing and oversight of this great structure.

The examination of all iron and steel for this and Seneca Street Bridge has been unusually careful. Mill inspection has been instituted as well as the regular inspection of shopwork previously insisted upon.

MISCELLANEOUS DATA.

SUPER-STRUCTURE.

Total length of Iron Super-structure (Walworth Run portion) 1,092 feet.
Total length of Iron Super-structure (Cuyahoga Valley) . . 2,839 feet.

Total length of Iron Super-structure (entire structure) . .	3,931 feet.
Width of Roadway	40 feet.
Width of Sidewalks	8 feet.
Width total	56 feet.
Elevation above Central Way	89 feet.
Elevation above River	101 feet.
Elevation above N., Y. C. & St. L. R'y Trestle . .	33 feet 5 inches.
Clearance over N., Y. C. & St. L. R'y Trestle . .	21 feet 7½ inches.

Flooring—Long leaf Southern pine 7 to 12 inches wide, faced on one side to uniform thickness 3½ inches; caulking seam 1-16 by 1½ inches bevel.

Pine block pavement 5 inches in depth.

Sidewalk plank long leaf Southern pine 5 to 8 inches wide, faced upon one side, uniform thickness 3 inches.

SUB-STRUCTURE.

Excavation	34,578 cubic yards.
Dredging	19,546 cubic yards.
Oak—Foundation piles	64,442 lineal feet.
Oak—Protection piles	17,472 lineal feet.
Oak—Foundation timber	782,891 feet B. M.
Pine—Foundation timber	186,549 feet B. M.
Iron in foundation	152,000 pounds.
Concrete	4,584 cubic yards.
Masonry	17,092 cubic yards.

SUPER-STRUCTURE—ENTIRE.

Total iron in super-structure (exclusive of hand railing)	4,552 tons.
Total iron in hand railing, facia and electric light poles	331 tons.
Total iron in pivot span (excluding hand rail, engine, etc)	554 tons.
Total weight of pivot span	750 tons.
Total Southern pine flooring	817,331 feet B. M.
Total pine paving blocks	15,355 sq. yards

For the sake of comparison, the following relative figures are given for the Central and Superior Street Viaducts:

	SUPERIOR STREET VIADUCT.	CENTRAL VIADUCT.
Total length of structure proper .	2,482 feet.	3,931 feet.
Total length including approaches	3,211 feet.	5,229 feet.
Width of roadway	42 feet.	40 feet.
Elevation above river	68 feet.	101 feet.
Total width pivot span	46 feet.	56 feet.
Cost—Exclusive of right of way .	\$1,600,000.00	\$ 675,574.00.
Time of construction	4 y'rs 4 mo.	2 y'rs 7½ mo.

PIVOT SPAN.

Length of span	233 feet.
Cost of engine, engine house, two guard houses, coal and water tanks, foot walks and wedge gear . . .	\$4,404.61
Super-structure (exclusive of above)	\$40,900.00
Sub-structure complete (including end piers)	\$108,000.00

CONTRACTORS AND AMOUNT OF CONTRACTS.

Stanley, Fisher & Co—Sub-structure	\$247,527.79
King Iron Bridge and Mfg. Co.—Super-structure . .	294,386.00
Manly & Cooper Mfg. Co—Hand rail	25,774.28
W. I. Lindsay & Co—Southern pine	26,698.55
Reiley & Kuentz—White pine pavement	14,953.26
Claffen Paving Co—White pine pavement	5,498.67
Claffen Paving Co., Street railway rails—Main portion .	4,396.61
Claffen Paving Co., Street railway rails—W. R. portion	2,182.69
Albert Hartzell—Laying and caulking floor	8,680.43
Thos. Manning, Jr.—Engine, boiler, engine and tender houses, and bridge gearing	4,404.61
Woodhill & O'Gorman—Stairs at Scranton Avenue . .	3,150.00
Van Dorn Iron Works—Gates and stairs to engine house	860.55
H. Fisher—Paving slope and furnishing rip-rap . . .	308.08

P. O. Sullivan—Fill at south river pier	298.80
Jas. Nicoll—Foundation for stairs and dressing river piers	302.62
Chas. H. Strong & Son—Protection piles	295.00
N., Y. P. & O. Ry.—Maintaining tracks	502.33
N., Y. P. & O. Ry.—Cinders for south river pier . .	110.00
Shackleton Bros.—Down spouts	781.56
Fulton Foundry—Drip boxes	24.50
Bowler & Co.—Cast frogs	29.40
Thomas West Foundry Co.	80.68
A. Godiv—Modeling counter-weights and pattern . .	45.00
Riverside Machine Co.—Sawing S. pine blocks . . .	31.00
J. Feran—Payroll for bridge work	533.00
G. W. Weiss—Covering boiler	32.00
Variety Iron Works—Iron for end of draw	25.81
McIntosh, Huntington & Co.—Tools, etc	45.16
Shafer & Becker—Pipe	14.18
Woods, Jenks & Co.—Lumber	7.45
Kennedy, DeForest, Parsons & Co.—Stoves	25.40
Rice & Burnett—Lanterns for draw	42.00
Vincent, Barstow & Co.—Chairs	18.00
Davidson & House—Lumber	27.95
C. Schultz—Draughting	20.00
John J. Graves—Plumbing	10.85
Hotchkiss & Upson Co.—Bolts	41.41
Hempy & Son—Tops for electric light poles	17.75
Telephone bill	65.00
Engineering and inspection	19,295.81

APPROACHES.

L. F. Beers—Sewer at N. approach and Jennings Ave- nue hill	1,379.85
Wood Bros.—Sewer at Abbey Street	186.40
Claffen Paving Co.—Furnishing and laying Street R. R. tracks	1,895.60

J. B. Hoefgen—Furnishing and laying Street R. R. tracks	2,679.05
Claffen Paving Co.—Paving	27,675.14
Frank Rieley—Paving	844.36
S. Smith—Flagging	1,735.02
A. A. Dietrick—Cleaning vaults, Harrison Street . .	106.88
Total	\$698,046.48

Right of way and incidental expenses bring the total cost of the improvement up to about \$885,000.00. The amount authorized was \$1,000,000.00. The city is to be congratulated upon the showing.

PLANS AND ELEVATIONS.

In addition to statements and figures herewith submitted, I have thought best to introduce three cuts or plates, of this important structure. One showing a plan and elevation of the Cuyahoga Valley portion of the Central Viaduct; a view of the center and end piers of the Pivot Span, and a plan showing the ground location of the two structures, their connections and approaches.

PEARL STREET VIADUCT.

This bridge was thrown open to travel about July 10th. It is a substantial structure—has steel compression members and is giving excellent satisfaction.

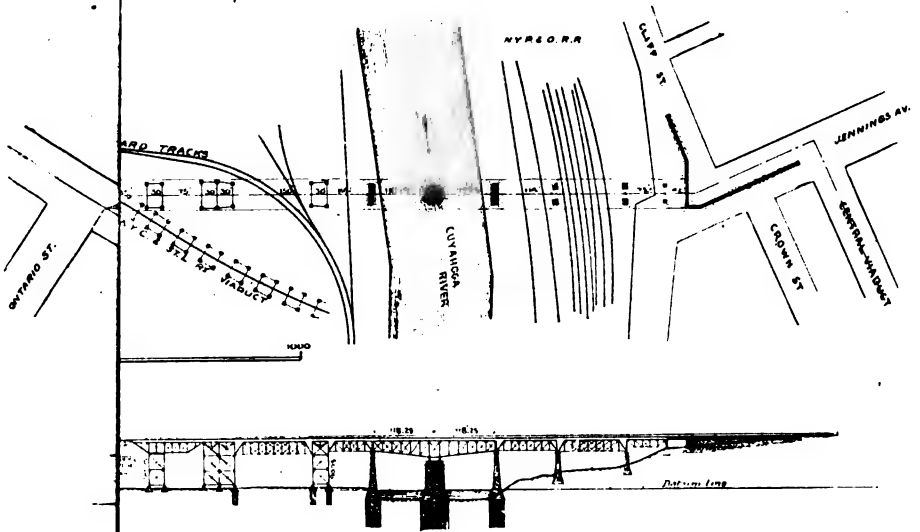
SENECA STREET BRIDGE.

The new bridge at Seneca Street now in process of construction, replaces an old, inadequate and dangerous structure. It consists of one Pivot Span of 180 feet, and a fixed span of 105 feet with two walks of 5 feet each, and a 20 foot roadway in the clear.

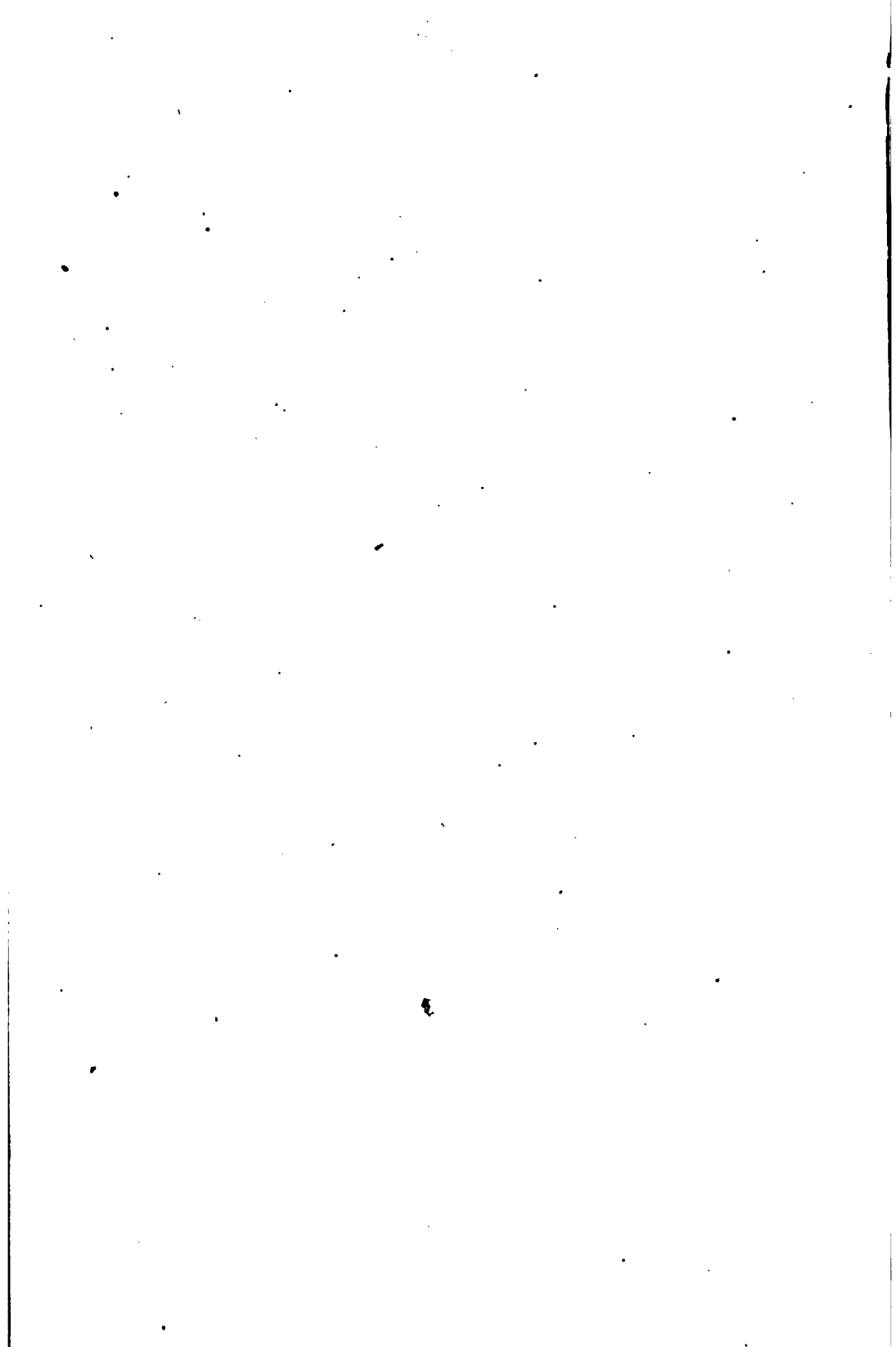
The new spans are on a gradient of $2\frac{1}{4}$ feet per 100 feet, this overcomes $6\frac{1}{2}$ feet of grade, and is of proportionate benefit to the approaches.

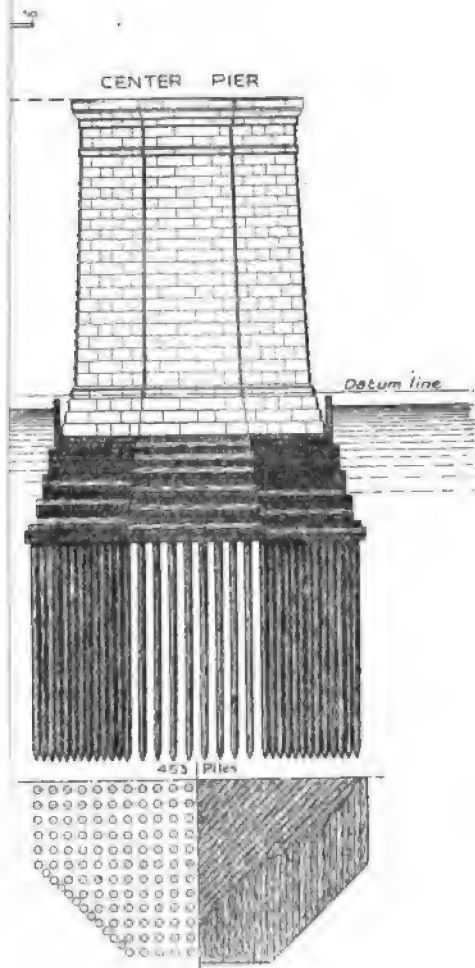
Steam power will be used to swing the bridge.

The sub-structure is completed at the present time and the two spans are in process of erection.

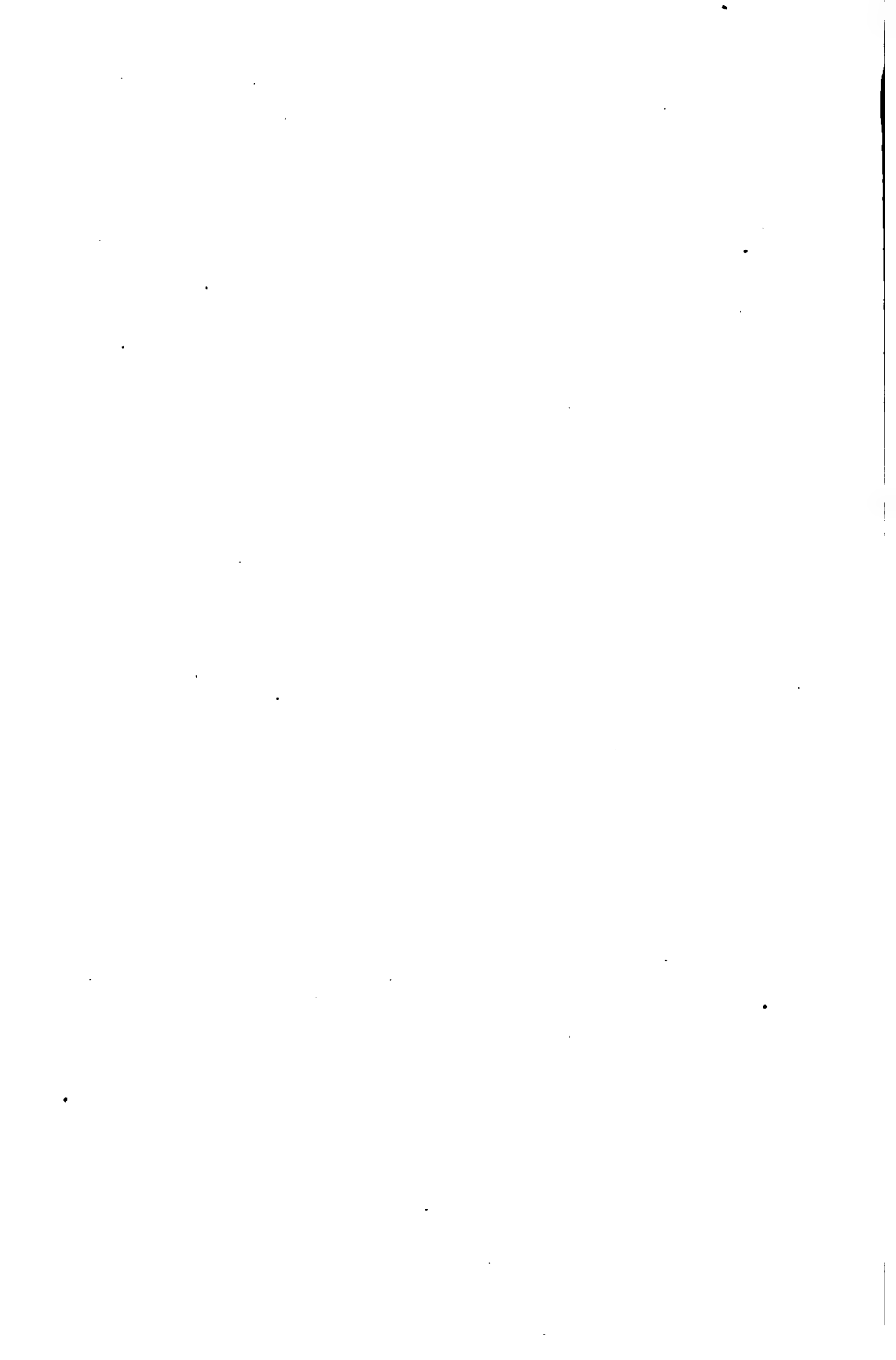


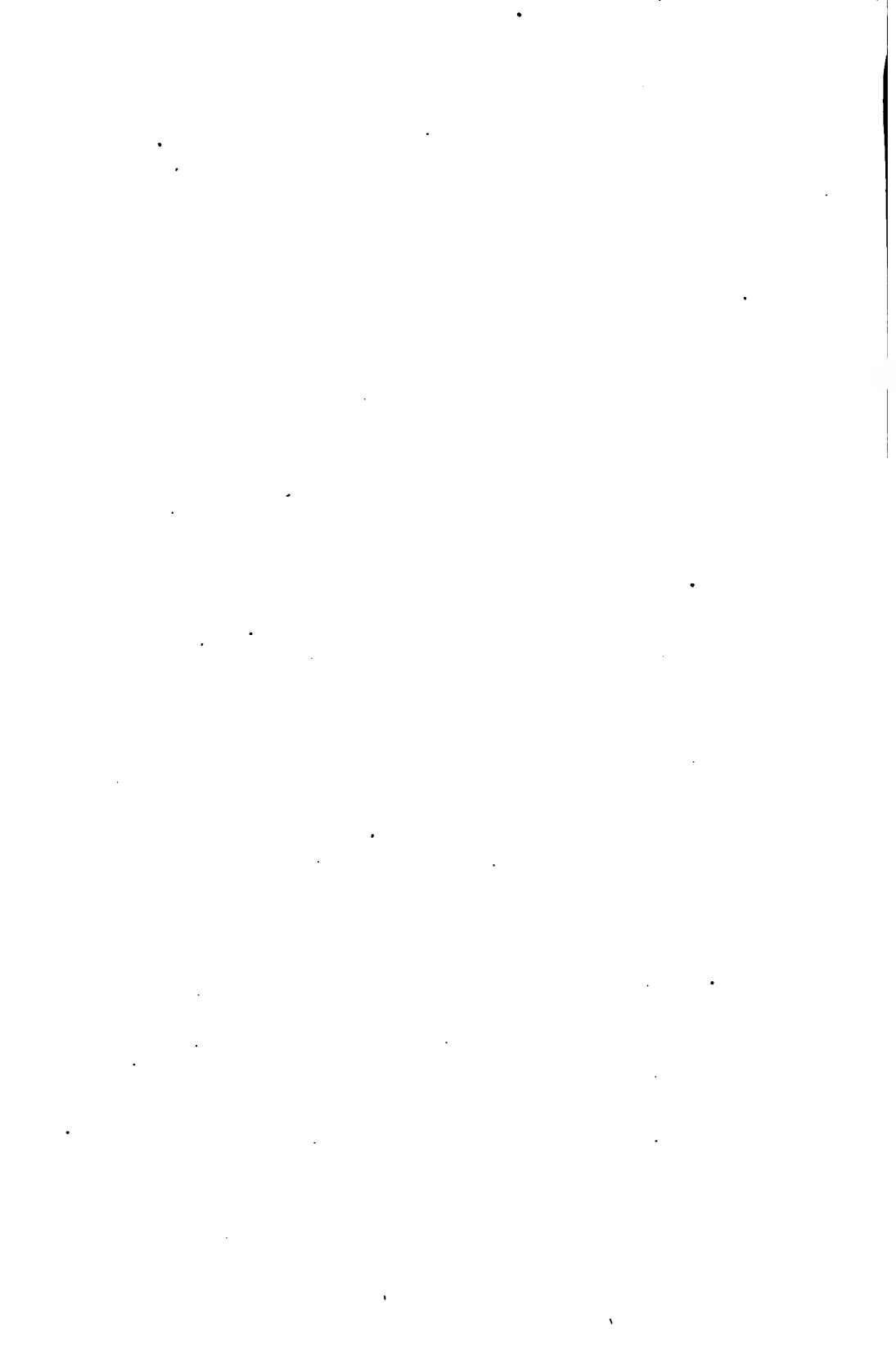
RE OVER CUYAHOVA VALLEY.





PAN OVER CUYAHOGA RIVER.





Extra care has been taken with the design of the north pier and foundation to avoid the sliding tendency so manifest and troublesome in the former structure.

REPAIRS—CITY BRIDGES.

The city has at the present time about forty bridges to look after and keep in repair—many of which are old, dilapidated and more or less dangerous—requiring the closest care and watchfulness to prevent accident and prolong their span of life.

The following is some of the work performed by the Bridge Repair gang during the last year :

- Removal of temporary bridge at Pearl Street.

- Removal of portion of Willow Street bridge.

- Removal of old bridge at Seneca Street.

- New approach at Columbus Street bridge.

- Two new approaches at Eagle Street bridge.

- Two new approaches at Commercial Street bridge.

- New floor on bridge at paper mill.

- New floor on bridge at Jefferson Street.

- New floor on bridge at Columbus Street.

- Raising bents at Broadway Extension.

- Adjustment of Kingsbury Run bridge.

- New pinion and adjustment of turntable track, Center Street bridge.

- New pinion and adjustment of turntable track, Central Way bridge, including repairs to handrail, etc., due to collision.

- Repaving on Superior Street Viaduct.

- Repairs to engine Superior Street Viaduct, and a great amount of small miscellaneous repairs.

Superintendent of Bridges, Mr. John Feran, and the members of the Bridge Repair gang deserve great praise for the energy and cheerfulness which has entered into the discharge of their arduous duties. They have shown no hesitation in working nights and Sundays when called upon.

SURVEYS.

The principal survey of the year was the location of the proposed new street to be called Walworth Street, in the valley of Walworth Run, from Scranton Avenue to Gordon Avenue. It is proposed to open up this street sixty feet in width, by appropriation, and the resolution for same has passed the Council and the ordinance is now pending and will probably soon pass. The center line of said street was carefully measured and defined as described in the resolution and all necessary connections made with intersecting streets and lines.

This was the first definite location of a street along the Run made with the precision necessary for the appropriation of land. In making said location twenty intersecting or adjacent streets were surveyed.

The total number of streets, etc., surveyed during the year as given in Table No. 10, is forty, being twice the number surveyed in 1887. These surveys involved the taking of more than ten miles in length of careful measurements with steel tape.

SUB-DIVISION PLATS.

Thirty-seven plats or maps of Sub-divisions, etc., which were finally approved by the Council, were examined and reported upon to the Board of Improvements, being eighteen more than in 1887, or nearly twice as many.

Sixty new streets or parts of streets and twenty-five alleys were laid out by these plats. The names of the sub-divisions and the date of their approval are given in Table No. 11.

HOUSE NUMBERING.

Surveys and maps were made for numbering houses on $23\frac{1}{2}$ miles of streets as against 11 13-100 miles in 1887, being 2 1-10 times as much. These maps required the location and platting of 1,625 houses and the assignment of more than 124,000 numbers—one for every 20 feet front.

The present system of house numbering was adopted April 17th, 1882, and is perhaps the most satisfactory of the many that have been

suggested for a city having so many of its streets radiating from a common center, or otherwise irregularly laid out. Under this system, only such streets can be numbered or renumbered as the Council shall by resolution designate.

In all cases of where a street is renumbered the old number should be removed within the thirty days prescribed in the ordinance, as in very many cases such old numbers are allowed to remain so long that it becomes difficult to determine which is the correct or legal one. I suggest that the house numberer in putting up the new numbers, notify each property owner that the old one must be removed within thirty days thereafter, or be subject to the fine specified in the ordinance.

STREET LIGHTING.

The total amount of gas and vapor lamps in use for street lighting December 31st, 1888, was 7,513 of which 2,919 were vapor and 4,594 gas, a net increase of 514 for the year; 154 gas and 387 vapor lamps. These new lamps were all located and noted on the street lamp maps.

The number of 4,000 candle power electric lights on masts remained the same as in 1887, viz.: 26, eight on mast in Public Square, and six on each of the other three masts. The number of 2,000 candle power electric lights was increased from 43 to 66—19 being put on Central Viaduct, 2 on Pearl Street Viaduct and 2 on Lawrence Street crossing of the C. & P. R. R.

There was no change in contract prices for lighting from the preceding year, except that the cost per year of each gas lamp was increased from \$18.00 to \$18.54, which increase was for cleaning the lamps three times per month instead of twice, as in 1887.

The price of vapor lights remained the same, viz.: \$14.90 per lamp per year.

The price of 2,000 candle power electric lights remained at 37-10 cents per hour—\$139.12 per lamp for the year of 3,760 hours, and the price of 4,000 candle power lights remained at 10½ cents per hour—\$394.80 per year of 3,760 hours.

The total cost of street lighting for the year, including new posts,

lanterns, glass, repairs, etc., was \$153,652.78, which includes \$1,418.50 for lighting City Hall and Armory, being an increase of \$19,577.19 over 1887.

CUYAHOGA RIVER.

DREDGING.

There has been perhaps no class of work contracted for by the city in which there has been so much lack of system and such an inadequate return for the investment as the dredging of the Cuyahoga River. At the present time as the result of careful attention, it has been thoroughly systematized, based on the U. S. Government method. Water gauges have been established at the different bridges. Inspectors skilled in this particular line of work have been employed. Daily, weekly and monthly reports—exhaustive and checking one another are sworn to by the inspectors. These reports are in turn checked by examinations and surveys, and charts are prepared each season showing the condition of the river before and after completion of dredging operations. The result has been highly gratifying, showing last season a larger amount of work with a smaller expenditure than for any season during the last ten years.

A 75 foot channel has been maintained in the river proper instead of a 50 foot channel as given prior to 1887. In addition, three cuts, or a 75 foot channel has been excavated in the old river bed for a distance of nearly 2,000 feet, and with a face of from 1 to 8 feet, being rendered necessary by the construction of a dry dock by the Vessel Owners' Dry Dock Co. Also piles were driven in the neighborhood of the Cleveland & Canton R. R. bridge for the protection of vessels, piles were also drawn at Willow Street bridge, at the expense of the Dredging Fund.

The depth of improved channel has been increased below the N., Y. P. & O. R'y bridge from 14 feet to 16 feet the last two seasons, and the total expenditure is \$3,000.00 less than the average between the years 1882 to 1887.

If the large and unusual amount of work performed in the old river bed had not been called for a channel 100 feet in width and of greater depth below the N., Y. P. & O. bridge could have been se-

cured at the same or less expense than the 50 foot channel in the past. I would recommend a greater width of dredged channel in the future with a moderate increase of depth.

Under the new order of affairs, vessels drawing 15 feet of water are enabled to ascend the river to the Upper Blast Furnace of the Cleveland Rolling Mill Co., where before they were unable to do so with a draught over 12½ feet.

Much of the success of the dredging operations is due to the able and intelligent manner in which Mr. Q. A. Gillmore, the Superintendent of Dredging, has carried out instructions.

HARBOR FACILITIES.

Mr. Peter Lynch, Harbor Master, reports the following number of vessels in winter quarters at this port:

61 steamers, 63 sail vessels, 1 steam yacht, 1 sail yacht, 3 lake tugs, 19 harbor tugs, 9 fish tugs, or 124 vessels, steam and sail, with a carrying capacity of 155,630 tons, besides dredges and lighters.

Entered during navigable season 1888:

2,029 steamers	Tonnage 1,237,954 tons.
1,532 sail vessels	Tonnage 584,352 tons.

Cleared:

2,117 steamers	Tonnage 1,308,615 tons.
1,602 sail vessels	Tonnage 607,265 tons.

There were built at this port during the year 1888, 20 steamers and 1 sail vessel.

The following was received during the year:

Iron ore	1,111,913 tons.
Lumber	299,417,000 feet B. M.
Logs	19,800,000 feet B. M.
Wheat	1,048,970 bushels.
Limestone	14,004 cords.

The amount of coal and oil shipped during the year is as follows:

Coal	702,513 tons.
Carbon oil	262,851 tons.
Lubricating oil	26,824 tons.

The Harbor Master also calls attention to the opening up of the old river bed and the repair of docks. Both questions are worthy of the serious and immediate attention of your Honorable Body.

CEMENT TESTING.

During the year, 345 tests were made of cements used in the construction of the City's Sewer and Bridge Masonry.

Briquettes for testing, with a breaking section of one square inch, were used. All tests were made of "neat" cement, to which sufficient water was added to make a plastic mortar, stiffer than is commonly used by masons. Different cements varied in the amounts of water needed to produce this result. Domestic cements require more water than the imported Portlands, also fine ground, more than coarse, and quick setting more than slow setting cements. The amount of water used was increased or diminished by the operator to suit the circumstances, his aim being to obtain mortars of unvarying consistency.

In testing well known domestic cements, it has been an object to save time, and the comparative excellence of the samples has been determined by a 24 hour test of briquettes. Under similar conditions Portland cement has been tested 7 days.

The briquettes were broken upon a Riehle Bro.'s cement-testing machine.

The figures given in the tables always represent average tensile strength per square inch.

In the future, tests will be conducted with cement and sand mixed, in addition to the "neat" tests.

To the members of the Board of Improvements and City Council I desire to express my appreciation of the kind consideration accorded me, and to the members of the department I desire to extend thanks for valuable assistance and co-operation.

Very respectfully submitted,

WALTER P. RICE,

City Civil Engineer.

INDEX TO TABLES AND SUMMARY OF ALL WORK DONE DURING THE YEAR 1888.

No. of Table	Classification.	Cost.	Page.
1	Street paving.....	\$ 252,116 76	564
2	Street grading, curbing and graveling	39,670 85	566
3	Sewers—constructed.....	110,240 00	569
4	Miscellaneous work.....	698,917 77	572
	Total contract work.....	1,100,945 38	
	MISCELLANEOUS.		
5	Improvements in progress—approximate cost to complete..	180,746 84	576
6	Special improvements for 1889.....	356,243 03	577
7	Street improvements—approximate estimates made.....	602,489 92	580
8	Sewers—Resolutions passed and approx. estimates made....	298,603 20	585
	Total prospective work	\$ 1,437,082 99	
9	Sewer plans prepared.....	66 sts.—20.17 miles.	588
10	Special surveys made.....	40.	592
11	Maps and subdivisions examined and reported.....	37.	594
12	House numbering maps and surveys made.....	36—23½ miles.	596
13	Street frontage and ownership maps made.....	67—14¾ "	598
14	Miscellaneous maps made.....	16.	602
15	Street cross-sections and levels.....	111 sts.—34.4 miles.	603
16	Street grades established.....	61 sts.—13.7 "	610
17	Sidewalk grades given.....	31 sts.—11.85 "	614
18	Hydraulic cement tests made.....	345.	615

TABLE NO. I.
STREETS PAVED OR REPAVED DURING 1888.

Name of Street.	From	To	How Improved.	Cost.	Contractor.
*Abbey	Lorain	254 feet east of Tracy	Paved	\$ 385 00	Rieley & Brennan.
Broadway	Mead	Union	Repaved	48,859 68	Claden Paving Co.
Central Viaduct	Jennings	254 feet east of Tracy	Paved (stone)	7,661 11	" "
"	Hill	South line of Abbey	" "	16,583 03	" "
"	"	Jennings	" (wood)	14,921 00	Rieley & Kuentz.
Case	L. S. & M. S. Ry.	South curb Payne	"	39,716 70	J. F. Brennan.
Cliff	Jennings	Easterly	Repaved	224 22	F. Rieley.
Division	State	Water Works lot	Paved	7,667 00	N. Y., P. & O. R'y Co.
*Euclid	Fairmount	City limits	Repaved	4,390 00	Claden Paving Co.
"	At south east corner	of Case	"	864 11	J. F. Brennan.
*Franklin	Circle	Waverly	"	39,335 67	Claden Paving Co.
"	"	Pearl	"	92 13	" "
"	East line of Waverly	Gordon	Paved	12,405 39	" "
*Fairmount	Euclid	South line of Baldwin	Repaved	2,799 51	" "
Hayward	Prospect	Cedar	Paved	4,881 97	" "
Jennings	Abbey	Northerly	Repaved	620 00	F. Rieley.
Kennard	Prospect	Garden	Paved	16,826 92	Claden Paving Co.

TABLE NO. 1.—Continued.

Name of Street.	From	To	How Improved.	Cost.	Contractor.
Kennard.....	Euclid.....	Prospect.....	Paved.....	\$ 3,979 16	Claffen Paving Co.
Miami alley.....	Prospect.....	Huron.....	".....	848 36	"
Middle.....	".....	".....	".....	4,165 56	"
Ohio.....	West line of Ontario.....	Erie.....	".....	336 01	Rieley & Brennan.
*Pittsburgh.....	Liberal.....	East line of Jackson.....	".....	4,616 56	Frank Rieley.
Perry.....	North line of Prospect.....	South line of Cedar.....	Repaved.....	7,174 23	Claffen Paving Co.
Pearl street Viaduct.....	Approaches.....	".....	".....	2,325 87	"
* ".....	Iron portions.....	".....	Paved.....	2,419 13	H. B. Carpenter.
Vincent.....	Bond.....	Erie.....	".....	186 79	Claffen Paving Co.
Sibley.....	Hayward.....	Case.....	".....	7,671 60	"
Total.....	.....	.....	.....	\$ 252,116 76	.....

*Expended in 1888 to complete.

TABLE NO. 2.
STREETS GRADED, GRAVELED OR CURBED DURING 1888.

Name of Street.	From	To	How Improved.	Length in Feet.	Cost.	Contractor.
Birch	Detroit	Franklin	Grad'd, gravel'd & Curb'd	719	\$ 755 43	P. O'Sullivan.
*Brookfield.....	Hough.....	Euclid.....	Grade	2,141	758 50	A. W. & C. C. Brannan.
Belmont	Woodland	Croton.....	" and Curb.....	984	578 71	Jas. Whitehouse.
†Cornell	Euclid.....	Catawba.....	"	1,130	53 84	J. W. McReynolds.
†Conrad	Higgins.....	Ridge.....	"	997	12 02	.....
Canal.....	Seneca.....	Factory street bridge.....	Planked	700	2,057 32	W. I. Lindsey.
Corwin	Woodland	Holton	Grade	1,160	270 34	J. & G. E. Whitehouse.
Dibble.....	Willson.....	Norwood	"	1,538	287 77	A. W. & C. C. Brannan.
Florence	Seovill.....	Woodland	" and Curb.....	1,236	987 71	Jas. Whitehouse.
Fenton	Kinsman	Colfax	"	327	90 00	D. McLane.
Genesee	Hough.....	Euclid	" and Curb.....	1,994	1,285 07	J. W. McReynolds.
†Hamilton	Erie	Muirson	"	665	20 20	"
Hazard	Superior	Payne	"	715	2,180 57	McCarthy & Vanstan.
Iona	Clark	Storer	Cinder.....	2,604	1,368 38	J. W. McReynolds.
Irving.....	Woodland	Pittsburgh.....	Grade and Curb.....	1,101	776 27	Jas. Whitehouse.
Kingsbury Viaduct Exten.	Humboldt.....	Jackson	"	1,095	2,133 62	Rieley & Brennan.
"	"	"	Curb.....	1,095	822 05	J. W. McReynolds.

TABLE NO. 2.—Continued.

Name of Street.	From	To	How Improved.	Length in Feet.	Cost.	Contractor.
Flexington	Willson	Dunham	Grade and Curb	1,989	\$ 333 43	J. W. McReynolds.
Lincoln	Euclid	Cedar	Graveled	1,280	787 55	"
Lodge	Garden	Quincy	Grade and Curb	946	633 51	Jas. Whitehouse.
Mayflower	Woodland	Croton	"	934	552 53	Thos. Gregory.
Norwood	Superior	South line of Luther	"	819	677 61	A. W. & C. C. Brannan.
"	Hough	"	"	2,733	3 234 49	"
Oregon	Erie	Muirson	"	662	446 95	M. E. Kavanaugh.
Oliver	Euclid	Superior	"	2,520	2,006 50	McCarthy & Vanstan.
†Petrie	Broadway	430 feet south of Clay	"	3,337	791 66	J. W. McReynolds.
†Perkins	Case	Willson	" and Curb	1,764	89 94	"
*Payne	Sterling	"	"	4,807	4,100 75	"
Prairie	Pearl	Scranton	"	626	40 09	McCarthy & Vanstan.
Portage	Broadway	Adolph	"	1,442	146 32	Thos. Champion.
Quincy	C. & P. Ry.	East Madison	"	4,420	777 31	J. & G. E. Whitehouse.
Quimby	Giddings	466 feet west of Russell	" and Curb	789	470 58	A. W. & C. C. Brannan.
Rawlings	Herald	East Madison	"	882	176 58	McCarthy & Vanstan.
Reservoir	Kentucky	West end	"	619	273 17	P. O'Donnell.
†Southern	Quincy	Woodland	Curb	1,829	38 97	M. E. Kavanaugh.
Sibley	Perry	Sterling	Grade and Curb	1,938	856 71	J. W. McReynolds.

TABLE NO. 2.—Continued.

Name of Street.	From	To	How Improved.	Length in Feet.	Cost.	Contractor.
Strybos	Petrie	South	Grade	498	\$ 283 02	J. W. McReynolds.
St. Clair	East Madison	Becker	" and Curb	1,818	3,509 70	"
Streator	Euclid	Cedar	"	1,435	1,028 34	"
Sykora	Independence	Hunting	"	1,067	850 42	McCarthy & Vanstan.
South Bell	Cedar	1,671 feet south	" and Curb	1,671	1,191 09	A. W. & C. C. Braanan.
Tilden	Euclid	Crawford	"	1,325	817 03	J. W. McReynolds.
Taylor	Bridge	Lorain	"	563	101 94	P. Platten.
"	"	Franklin	"	1,614	1,167 67	M. E. Kavanaugh.
Vienna	Cedar	1,633 feet south	"	1,633	104 77	J. W. McReynolds.
Wabash	Kinsman	South	"	763	150 00	D. McLean.
Whitehead	Harvard	Broadway	"	540	92 42	McCarthy & Vanstan.
Total .....	.....	.....	.....	67,353	\$ 89,670 85	.....

*Uncompleted.

†Expended in 1888 to complete.

TABLE No. 3.
SEWERS CONSTRUCTED IN 1888.

Name of Street.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Birch	Detroit	Southerly	295	15 in. cir...	Pipe	\$ 248 30	Wood Bros.
Bolton	Hough	Euclid	1,860	No. 2	Brick	2,798 82	. Beers.
Central Viaduct	Ohio	Southerly	360	20 in. cir...	"	638 45	"
Chatham	Mechanic	Lorain	383	12 " ..	Pipe	208 64	"
†Clark	450 feet east of Burton	C., C., C. & I. Ry	{ 226 150 }	{ No. 4... " 2.... }	{ Brick	1,439 91	Campbell Bros.
Courtland	Franklin	Lorain	{ 1,037 1,424 }	{ " 7.... " 6.... }	{ Brick	14,247 54	Rieley & Kuentz.
Dayton	Payne	Kelley	129 380	" 4.... 12 in. cir...	Pipe	251 70	J. Connelly.
*†East Madison	Euclid	Woodland	{ 70 2,450 1,925 }	{ No. 13... " 12... " 10... }	{ Brick	45,745 05	Clements Bros.
East Madison	Lake Erie	Lena	{ 75 220 285 }	{ 9 ft. cir... 6 " .. 5 " .. }	{ Brick	7,425 26	Clements Bros.
Florence	Quincy	Woodland	1,712	No. 2	Brick	3,184 30	Campbell Bros.

TABLE NO. 3.—Continued.

Name of Street.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Gary	East Madison.....	Westerly.....	553	15 in. cir...	Pipe.....	\$ 538 50	Wood Bros.
Harnett	Cedar.....	Southerly.....	900	12 " "	" "	511 00	"
Harriett	"	Harnett	1,132	12 " "	" "	649 64	"
Hough	Genesee	Bolton.....	{ 1,198 402	{ No. 4..... " 3.....	{ Brick..... " "	4,112 50	L. F. Beers.
Jessie.....	Cedar.....	Garden	1,391	" 2.....	" "	2,409 70	J. Mahon.
†Kingsbury Viaduct.....	Jackson	Easterly	90	15 in. cir...	Pipe.....	108 50	Wood Bros.
"	Drainage N. Y., C. & St. L. R'y.}	Northerly	{ 290 438	{ 18 " " 6 " "	" "	366 90	L. F. Beers.
Lena	Willson.....	Norwood	1,627	No. 2.....	Brick.....	1,934 47	"
Liberal	Broadway	Cherry.....	490	12 in. cir...	Pipe.....	510 77	Rieley & Kuentz.
Liberty	Franklin	Southerly.....	534	15 " "	" "	411 78	Wood Bros.
McLean	Lorain.....	Carroll	355	No. 2.....	Brick.....	464 25	L. F. Beers.
Outwaite	Willson.....	Westerly.....	707	12 in. cir...	Pipe.....	691 16	"
Paddock.....	Woodland	Outwaite	590	12 " "	" "	500 00	Rieley & Kuentz.
Petrie	Broadway	South of Clay.....	232	12 " "	" "	1,512 36	"
Platt	East Madison.....	Lincoln.....	991	{ No. 2..... 18" cir.	{ Brick..... " "	1,552 46	Gawne Bros.
Root	Bridge.....	Lorain.....	{ 443 215	{ No. 2..... 12 in. cir...	{ " " Pipe.....	658 10	L. F. Beers.

TABLE NO. 3.—Continued.

Name of Street.	From	To	Length in Feet.	Size.	Material.	Cost.	Contractor.
Sago	Cedar.....	Sibley	256	12 in. cir...	Pipe.....	\$ 186 94	Wood Bros.
Sayles	"	Quincy.....	1,120	No. 2.....	Brick.....	1,682 80	Campbell Bros.
†Scranton	Holmden	City limits..	530	12 in. cir...	Pipe.....	1,497 50	L. F. Beers.
Smith alley	Lorain.....	Platt alley..	608	No. 2.....	Brick.....	229 60	"
Superior	Union.....	Easterly	416	12 in. cir...	Pipe.....	1,820 00	Rieley & Kuentz.
Wade Park	Dunham.....	Giddings	315	20 "	Brick.....	3,278 48	L. F. Beers.
Waverly	Bridge.....	†Lorain.....	1,302	No. 2.....	"	4,856 31	Rieley & Kuentz.
Walton	Pearl.....	Scranton.....	614	" 4.....	"	373 00	L. F. Beers.
Willett	Monroe.....	Lorain.....	462	" 3.....	Pipe.....	1,617 39	"
*Willey and Tracy	Walworth Run.....	Freeman	407	" 2.....	Brick.....	1,686 92	Clements Bros.
Total.....			574	12 in. cir...	Pipe.....		
			1,192	No. 2.....	Brick.....		
			600	16 in. cir...	Iron		
			33,965			\$ 110,244 00	

*Incomplete.

†Work done in 1888.

4.67 miles brick; 0.11 miles iron; 1.65 miles vitrified pipe sewer. Total, 6.43 miles.

TABLE No. 4.
MISCELLANEOUS IMPROVEMENTS DURING 1888.

Improvement.	How Improved.	Amount During Year.	Contractor.
Armory.....	Repairs to boilers.....	\$ 15 74	A. Mader.
Brookfield street.....	Culvert.....	511 25	L. F. Beers.
Bridges.....	Oak lumber.....	1,288 54	L. Stroup.
†Central Viaduct.....	Substructure.....	147,072 81	Stanley, Fisher & Co.
".....	Superstructure.....	231,017 00	King Iron Bridge & Manufacturing Co.
".....	Southern pine flooring.....	19,052 80	W. I. Lindsay.
".....	Laying flooring.....	6,289 94	A. Hartzell.
".....	Engine, boiler and house.....	4,404 61	Thos. Manning, Jr.
".....	Furnishing rails.....	4,896 61	Claffen Paving Co.
†".....	Laying rails.....	318 89	"
".....	" tracks.....	2,679 05	J. B. Hoefgen.
".....	" ".....	1,895 60	Claffen Paving Co.
".....	Stairs.....	2,250 00	Woodhill & O'Gorman.
".....	" and platforms.....	860 55	Van Dorn Iron Works.
".....	Stair foundations.....	288 76	Jas. Nicol.
".....	Railing.....	25,774 28	Manly, Cooper & Co.
".....	Stone flagging.....	1,735 02	S. Smith.

TABLE NO. 4.—Continued.

Improvement.	How Improved.	Amount During Year.	Contractor.
Central Viaduct	Down spouts.....	\$ 589 56	Shackleton Bros.
"	Placing cinders around piers.....	298 80	P. O'Sullivan.
"	Furnishing cinders.....	424 25	N. Y. P. & O. R. R.
"	"	110 00	N. Y., L. E. & W. R. R.
"	Rip rap.....	137 50	H. Fisher.
"	Repairing rip rap, etc.....	162 93	"
"	Dressing stone on river pier	13 86	Jas. Niccol.
"	Covering steam pipes	32 00	G. W. Weiss.
"	Castings	80 63	T. D. West Foundry Co.
*Cuyahoga River.....	Dredging Section 1	10,709 72	W. F. Rooney.
"	" 2	13,158 08	L. P. & J. A. Smith.
Case avenue.....	Sewer repairs.....	696 00	John Mahon.
City Hall.....	Ceiling rooms.....	341 77	W. J. O'Neil.
"	Painting.....	65 50	Weber & Lind.
"	"	194 10	Jas. Hayt.
"	Resetting boilers.....	474 00	A. Mader.
"	Plumbing.....	26 00	J. Lembeck.
"	"	16 50	J. Greaves.
Doan street.....	Sewer connection.....	51 00	Campbell Bros.

TABLE NO. 4.—Continued.

Improvement.	How Improved.	Amount During Year.	Contractor.
East Madison avenue.....	Repairs to culvert	\$ 766 59	L. F. Beers.
"	Test wells	74 00	F. S. Gilbert.
"	Culvert	241 90	L. F. Beers.
Hamilton street	Catch basin.....	22 00	McCarthy & Vanstan.
Marquette street sewer.....	Repairs.....	- 408 00	Campbell Bros.
Petrie street.....	Retaining wall.....	45 15	Cleveland & Canton R. R.
†Pearl street Viaduct.....	Superstructure	8,050 66	King Iron Bridge & Manufacturing Co.
†	Southern pine flooring.....	471 51	A. Teachout.
"	Laying flooring, etc	2,419 13	A. Hartzell.
"	Pointing abutments.....	90 00	Geo. Joyce.
"	Piles.....	48 96	John Stang.
*Seneca street Bridge.....	Substructure.....	39,302 26	Gloyd & Engel.
*	Superstructure	8,505 45	Variety Iron Works.
Sprinkling, front of.....	City property	277 85	Frank Geib.
"	"	824 04	M. E. Kavanaugh.
"	"	275 14	J. A. McAdams.
"	"	137 59	J. Vanstan.
"	"	412 71	T. J. Costello.
Sidewalks	Delinquent	4,245 70	Phillip Platten.

TABLE NO. 4.—Continued.

Improvement.	How Improved.	Amount During Year.	Contractor.
Street lighting	Gas, east of River	\$ 63,135 48	Cleveland Gas Light & Coke Co.
"	" west "	24,467 50	People's Gas Light Co.
"	Vapor lamps	41,353 73	Harrison & Many.
"	Electric	17,034 78	Brush Electric Light & Power Co.
"	New lamp posts	3,371 05	Bowler & Co.
"	Lanterns	1,741 78	H. B. Hunt & Co.
"	Glass for lanterns	2,548 63	Van Cleave Glass Co.
† West Side Market	Gravel roof	86 50	H. McMahon.
Willson avenue sewer	Repairs	184 04	J. F. Kuentz.
Wood street sewer	"	153 11	"
Willow street Bridge	Piling	80 00	C. H. Strong.
"	Pontoon	205 00	L. P. & J. A. Smith.
"	"	416 00	"
"	"	155 00	"
Total .....	.....	\$ 698,917 77	

† Amount expended during 1888 to complete.

* Amount expended during 1888, not completed.

TABLE NO. 5.

IMPROVEMENTS UNDER CONTRACT AND IN PROGRESS, SHOWING THE ESTIMATED COST
TO COMPLETE THE SAME.

Name.	From	To	Kind of Improvement.	Approximate cost to complete	Contractor.
Cuyahoga River	Piers.....	City limits	Dredging	\$ 24,156 84	{ Wm. Rooney { L. P. & J. A. Smith.
Brookfield street.....	Hough avenue	Euclid avenue.....	Grade	2,254 00	A. W. & C. C. Brannan.
East Madison avenue...	Lake Erie.....	Lena avenue	Sewer.....	115,500 00	Clements Bros.
"	Euclid avenue.....	Woodland avenue.....	"	1,800 00	"
Payne avenue.....	Sterling avenue.....	Willson avenue.....	Grade and Curb.....	3,481 00	J. W. McReynolds.
Seneca street bridge....	.....	.....	.....	32,800 00	{ Gloyd & Engel. { Variety Iron Works.
Willey and Tracy street	.....	.....	Sewer.	755 00	Clements Bros.
Total.....	.....	.....	.....	\$ 180,746 84	

TABLE NO. 6.

LIST OF SPECIAL IMPROVEMENTS TO BE MADE DURING
1889, NOT INCLUDING IMPROVEMENTS UNDER
CONTRACT.

Name of Street.	From	To	How Improved.	Estimated Cost.
Ackley	Broadway.....	Fleet.....	Grading & Culverts	\$ 12,489 19
Ansel	Doan.....	Republic.....	Grading & Curbing	810 64
Arch.....	Croton	Burwell.....	Sewer.....	287 00
*Astor	Dunham.....	Giddings.....	Sewer.....	3,323 00
Atwater	Pratt	Miles.....	Grading & Curbing	638 29
Auburn.....	Pearl	Scranton	Sewer.....	1,592 60
Auburn.....	Scranton.....	Jennings.....	Sewer.....	1,327 00
Auburn.....	Jennings.....	Merchant.....	Sewer.....	586 00
Belden.....	Superior	Payne.....	Sewer.....	3,204 00
Bolton	Euclid.....	Cedar	Grade & Pave.....	7,182 49
Bolton.....	Euclid.....	Hough	Grade	3,300 31
Bolton.....	Cedar	Quincy	Grade & Curb..	2,078 04
Brooker.....	Cedar	Quincy.....	Curb.....	1,810 06
†Brookfield	Euclid.....	Hough.....	Grade & Curb.....	4,494 14
Buhrer.....	Jennings.....	Scranton.....	Sewer.....	3,037 00
Burwell.....	Case	Wallingford Ct....	Sewer.....	625 00
Burwell.....	Forest	30 ft. W. of Arch..	Sewer.....	357 00
Cologne.....	Auburn.....	Lamoille	Grade, pave gutters	337 37
Cuyahoga River.....	Government Piers	W. line orig. lot 281	Dredging.....	24,669 62
Croton.....	Jackson.....	Case	Grade & Curb.....	4,329 64
Cedar.....	Perry.....	Willson	Grade & Pave.....	47,444 13
Cross	Woodland	Broadway.....	Grade & Pave.....	4,261 63
Clark	Jennings	Merchant.....	Sewer.....	660 50
Clifton	Payne.....	Kelly.....	Sewer.....	526 00
Crawford	Genesee	Hough.....	Grade & Curb.....	1,648 41
Cherry.....	Perry.....	Liberal.....	Sewer.....	699 50
Champlain.....	South Water.....	N. line Canal.....	Repave	2,298 03
Canal	S. line Champlain..	S. line Michigan ..	Repave	4,455 62
Case	Croton.....	Woodland	Sewer.....	1,426 50
Canal	Champlain.....	S. line Michigan ..	Sewer.....	1,531 00
Congress.....	N. Woodland.....	160ft. N. Remingt'n	Grade & Curb.....	633 59

TABLE NO. 6.—*Continued.*

Name of Street.	From	To	How Improved.	Estimated Cost.
Clark	Pearl.....	Scranton	Sewer	\$ 509 00
Doan	Euclid	Ansel	Grade	1,073 96
Dodge.....	Euclid	Superior.....	Grade & Curb.....	1,814 71
Dibble.....	Willson.....	Norwood.....	Curb.....	1,023 30
Emmet.....	Marquardt.....	Alley	Grade	164 01
Finney.....	Hooker.....	250 ft. W. of Valley	Grade	331 36
First.....	Garden.....	Quincy.....	Sewer.....	1,413 00
Gordon	Lorain	Bridge.....	Sewer.....	8,060 00
Greenwood.....	Sibley	Garden.....	Grade & Curb.....	801 48
Granger.....	Prospect	Garden	Grade & Curb.....	693 15
Grant.....	Cedar.....	Garden	Sewer.....	1,082 00
Grove.....	Croton.....	Orange.....	Sewer.....	413 00
Giddings.....	Wade Park	Astor	Sewer.....	1,854 00
Heisley	Tod	Wiemer.....	Grade.....	321 31
Holmden.....	Scranton	Jennings	Sewer.....	435 00
Higgins.....	Lorain.....	Clark ...	Grade.....	417 28
Hunting	Independence.....	North end.....	Grade	376 96
Harbor.....	Franklin.....	Lorain.....	Grade & Curb.....	3,129 23
Holmden.....	Scranton	Pearl.....	Sewer.....	3,151 00
Hough	East Madison.....	E. line of Holt.....	Grade & Curb.....	4,093 77
Hough	Bolton.....	500 ft. E. of Holt..	Sewer.....	3,404 00
Howlett.....	Guage.....	Burton.....	Grade	756 07
Independence	Broadway	400 ft. S. of Holly.	Pave.....	19,067 13
Jessie.....	Garden	Cedar	Grade	532 15
Keyes.....	Edwards.....	East Madison.....	Grade & Curb.....	578 62
Kirtland.....	Lake	Lake Erie.....	Sewer.....	1,257 50
King.....	Lawrence	Wason.....	Curb.....	896 86
Lorain	Waverly	Ridge.....	Repave.....	22,531 07
Linwood	East Madison.....	Genesee	Sewer.....	1,628 50
Lisbon	Woodland	South	Grade & Curb.....	587 59
Linden	Scovill.....	Woodland ..	Grade & Curb.....	856 67
Lake.....	Wason.....	Case	Sewer.....	1,746 00
Lake.....	Erie.....	Alabama	Grade & Curb.....	4,749 90
Merchant	Willey	Auburn.....	Sewer.....	2,464 00
Margaret	Kirtland.....	Willson.....	Sewer.....	1,663 50

TABLE NO. 6.—*Continued.*

Name of Street.	From	To	How Improved.	Estimated Cost.
Mayfield.....	Euclid.....	City limits.....	Grade.....	\$ 512 94
Morse.....	Euclid.....	East Prospect.....	Gravel.....	509 75
Mayfield.....	Euclid.....	City limits.....	Sewer.....	1,611 00
Ontario.....	Lake.....	St. Clair.....	Repave.....	12,635 49
Orange.....	Forest.....	Case.....	Sewer.....	1,954 00
Ontario.....	Monumental Sq....	Eagle.....	Repave.....	49,804 77
Perry.....	Cedar.....	Woodland.....	Repave ..	22,036 08
Perry.....	Euclid.....	Prospect.....	Repave.....	4,895 63
Portland.....	Kennard.....	Willson.....	Grade.....	704 77
Rossiter.....	St. Clair.....	Superior.....	Grade.....	121 87
Ruggles.....	Miles.....	Pratt.....	Grade.....	241 87
Slater.....	Woodland.....	Outhwaite.....	Sewer.....	521 50
Sterling.....	Euclid.....	Hamilton.....	Grade & Curb.....	4,182 95
Sherbrook.....	Superior.....	North end.....	Grade & Curb.....	483 56
Shirley.....	Sykora.....	Nuss.....	Grade.....	206 24
Sonora.....	Sterling.....	Lawrence.....	Grade.....	151 41
Street, north side of				
Sterling Place.....	Waring.....	Rossiter.....	Grade.....	101 15
Street, south side of				
Sterling Place.....	Waring.....	Rossiter.....	Grade.....	143 53
Sterling.....	Prospect.....	Scovill.....	Grade & Curb.....	2,129 74
Union.....	Broadway.....	Woodl'd Hills Av..	Grade & Cinder....	9,383 92
Vermont.....	Hanover.....	Pearl ..	Gr'de & pave gutt's	1,431 10
Vermont.....	Hanover.....	Pearl.....	Sewer.....	633 00
Worthington.....	Cliff.....	End of street.....	Grade.....	110 62
Wiley.....	Merchant.....	Pelton.....	Sewer.....	760 60
Weimer.....	Kenyon.....	Fleet.....	Grade & Culvert..	2,011 13
Watkins.....	Cedar.....	East Prospect.....	Curb.....	363 92
Wallingford Ct.....	Burwell.....	Woodland.....	Sewer.....	764 00
Willcutt.....	Woodland.....	Beaver.....	Sewer.....	852 00
Waring.....	St. Clair.....	Superior.....	Grade.....	45 11
95 Streets				
Total.....				\$355,243 03

*Two instalments—the last payable with the taxes of 1889.

†Two instalments—the last payable with the taxes of 1888.

TABLE No. 7.

STREET IMPROVEMENTS FOR WHICH APPROXIMATE ESTIMATES, RESOLUTIONS AND ORDINANCES HAVE BEEN PREPARED, IN ORDER TO ASSESS THE TAX (NOT INCLUDING INTEREST.)

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Ansel.....	Doan	Republic.....	Grade and Curb.....	\$ 810 64
Asylum.....	St. Clair.....	Superior.....	Grade and Curb.....	998 34
Bolton.....	Quincy.....	Woodland.....	Grade	835 32
Berlin.....	Auburn.....	Lamoille.....	Grade and pave Gutters	365 71
Brooker.....	Cedar.....	Quincy.....	Curb.....	1,810 06
Bolton.....	Cedar.....	Quincy.....	Grade and Curb.....	2,078 04
Burton.....	Clark.....	Storer.....	Grade	1,090 76
Cedar.....	Willson.....	East Madison.....	Repave	51,873 96
Croton.....	Jackson.....	Case.....	Grade and Curb.....	4,329 64
Crawford.....	Genesee.....	Hough.....	Grade and Curb.....	1,648 41
Cologne.....	Auburn.....	Lamoille.....	Grade and Pave Gutters.....	337 37
Cross.....	Woodland.....	Broadway.....	Pave	4,251 63
Champlain.....	South Water.....	East line of Canal.....	Repave	2,296 03
Canal.....	Champlain.....	Center of Michigan.....	Repave	4,455 62
Cottage.....	Aetna.....	Marble.....	Grade and Culvert	1,688 66

TABLE NO. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Chapel.....	Scovill.....	Woodland.....	Grade and Curb.....	\$ 988 71
Congress	Woodland	160 feet north of Remington	Grade and Curb.....	633 59
Czar	Broadway.....	Colorado.....	Grade	248 03
Decatur alley.....	Ohio	East end.....	Pave.....	7,032 07
East Madison.....	Hough.....	Euclid.....	Repave	23,069 03
Edwards	Quincy.....	Woodland.....	Curb.....	1,693 74
Ensign	Kinsman.....	Willson.....	Grade and Curb.....	680 60
Euclid	West line of Erie	West line of Perry.....	Repave	62,348 07
Euclid.....	Erie.....	East curb of Monumental Square.....	Repave	28,637 35
Euclid.....	At southeast corner of Case.....		Pave.....	998 89
Fairbanks	Kinsman	Colfax	Grade	172 65
Fenton.....	Kinsman	Colfax	Grade	96 48
Finney.....	Hooker	250 feet west of Valley.....	Grade.....	331 36
Fifth.....	Willson	Second	Pave.....	8,224 65
Fruit	Pelton.....	East end	Grade.....	139 85
Greenwood.....	Sibley	Garden	Grade and Curb.....	801 48
Grauger.....	Prospect.....	Garden.....	Pave.....	11,065 98
Grauger.....	Prospect.....	Garden	Macadamize	7,342 52
Hunting	Independence	North end.....	Grade	376 96

TABLE NO. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Higgins.....	Lorain.....	Clark.....	Grade.....	\$ 417 28
Hough.....	East Madison.....	East line Holt.....	Grade and Curb.....	4,083 77
Harbor.....	Franklin.....	Lorain.....	Grade and Curb.....	3,129 23
Hollister.....	Broadway.....	North end.....	Grade.....	309 05
Hamilton.....	Muirson.....	Dodge.....	Grade and Curb.....	1,115 96
Hough.....	Holt.....	490 feet east.....	Grade and Curb.....	772 07
Keyes.....	East Madison.....	Edwards.....	Grade and Curb.....	578 62
King.....	Lawrence.....	Wason.....	Grade and Curb.....	896 86
Lorain.....	Ridge.....	Gelb.....	Grade.....	3,983 06
Little.....	Auburn.....	Little.....	Grade.....	197 82
Lynn.....	University.....	University.....	Grade.....	308 20
Linden.....	Scovill.....	Woodland.....	Grade and Curb.....	856 67
Laurel.....	Scovill.....	Woodland.....	Grade and Curb.....	1,049 33
Lake.....	Erie.....	Alabama.....	Grade and Curb.....	4,749 90
Logan.....	Cedar.....	1,650½ feet south.....	Grade and Curb.....	1,711 10
Mayfield.....	Euclid.....	Limits.....	Grade and Curb.....	512 94
McCurly.....	Woodland.....	Holton.....	Grade and Curb.....	344 37
Maple.....	Garden.....	Scovill.....	Grade.....	816 96
Mentor.....	Seanton.....	Jennings.....	Grade and Curb.....	1,890 48

TABLE No. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Oak Grove Lane.....	Willey.....	North end.....	Grade.....	\$ 146 24
Outhwaite.....	Kennard.....	Willson.....	Grade and Curb.....	1,005 48
Ontario.....	Monumental Square.....	Eagle.....	Repave.....	49,804 77
Oregon.....	Muirson.....	Oliver.....	Grade and Curb.....	3,699 33
Petrie.....	South end of bridge.....	Fleet.....	Grade.....	2,751 96
Portland.....	Kennard.....	Willson.....	Grade and Curb.....	704 77
Prague.....	Gorden.....	Wine.....	Grade.....	415 78
Prospect.....	Case.....	Willson.....	Repave.....	10,388 85
Prospect.....	Case.....	Willson.....	Repave.....	25,983 96
Prospect.....	Center of Erie.....	Perry.....	Repave.....	46,794 61
Quimby.....	Willson.....	Norwood.....	Grade.....	391 52
Reservoir.....	Kentucky.....	West end.....	Grade.....	366 08
Reno.....	Woodland Hills.....	Limits.....	Grade.....	388 74
Sharon.....	Kinsman.....	Colfax.....	Grade.....	209 11
Sherbrook.....	Superior.....	North end.....	Grade and Curb.....	483 56
Shirley.....	Sykora.....	Nuss.....	Grade.....	26 24
St. Clair.....	East Madison.....	Becker.....	Grade and Curb.....	4,334 00
Sterling.....	Scovill.....	Woodland.....	Grade and Curb.....	815 52
Tamworth.....	Heisley.....	Fleet.....	Grade and Culvert.....	1,283 14

TABLE NO. 4.—Continued.

Improvement.	How Improved.	Amount During Year.	Contractor.
East Madison avenue.....	Repairs to culvert	\$ 766 59	L. F. Beers.
"	Test wells	74 00	F. S. Gilbert.
"	Culvert	241 90	L. F. Beers.
Hamilton street	Catch basin.....	22 00	McCarthy & Vanstan.
Marquette street sewer.....	Repairs.....	408 00	Campbell Bros.
Petrie street.....	Retaining wall.....	45 15	Cleveland & Canton R. R.
† Pearl street Viaduct.....	Superstructure	8,090 66	King Iron Bridge & Manufacturing Co.
† "	Southern pine flooring.....	471 51	A. Teachout.
"	Laying flooring, etc	2,419 13	A. Hartzell.
"	Pointing abutments.....	90 00	Geo. Joyce.
"	Piles.....	48 98	John Stang.
* Seneca street Bridge.....	Substructure.....	39,302 26	Gloyd & Engel.
* "	Superstructure	8,505 45	Variety Iron Works.
Sprinkling, front of.....	City property	277 85	Frank Gelb.
"	"	824 04	M. E. Kavanaugh.
"	"	275 14	J. A. McAdams.
"	"	137 59	J. Vanstan.
"	"	412 71	T. J. Costello.
Sidewalks	Delinquent	4,245 70	Phillip Platten.

TABLE NO. 4.—Continued.

Improvement.	How Improved.	Amount During Year.	Contractor.
Street lighting	Gas, east of River	\$ 63,135 48	Cleveland Gas Light & Coke Co.
"	" west "	24,467 50	People's Gas Light Co.
"	Vapor lamps	41,353 73	Harrison & Many.
"	Electric	17,034 78	Brush Electric Light & Power Co.
"	New lamp posts	3,371 05	Bowler & Co.
"	Lanterns	1,741 78	H. B. Hunt & Co.
"	Glass for lanterns	2,548 63	Van Cleave Glass Co.
† West Side Market	Gravel roof	86 50	H. McMahon.
Willson avenue sewer	Repairs	184 04	J. F. Kuentz.
Wood street sewer	"	153 11	"
Willow street Bridge	Piling	80 00	C. H. Strong.
"	Pontoon	205 00	L. P. & J. A. Smith.
"	"	416 00	"
"	"	155 00	"
Total .....	.....	\$ 688,917 77	

† Amount expended during 1888 to complete.

* Amount expended during 1888, not completed.

TABLE NO. 5.

IMPROVEMENTS UNDER CONTRACT AND IN PROGRESS, SHOWING THE ESTIMATED COST
TO COMPLETE THE SAME.

Name.	From	To	Kind of Improvement.	Approximate cost to complete	Contractor.
Cuyahoga River	Piers.....	City limits	Dredging	\$ 24,156 84	{ Wm. Rooney { L. P. & J. A. Smith.
Brookfield street.....	Hough avenue	Euclid avenue.....	Grade	2,254 00	A. W. & C. C. Brannan.
East Madison avenue..	Lake Erie.....	Lena avenue	Sewer.....	115,500 00	Clements Bros.
" ..	Euclid avenue.....	Woodland avenue.....	"	1,800 00	"
Payne avenue.....	Sterling avenue.....	Wilson avenue.....	Grade and Curb.....	3,481 00	J. W. McReynolds.
Seneca street bridge....	.....	.....	.....	32,800 00	{ Gloyd & Engel, { Variety Iron Works.
Willey and Tracy street	.....	.....	Sewer.....	755 00	Clements Bros.
Total.....	.....	.....	.....	\$ 180,746 84	

TABLE NO. 6.

LIST OF SPECIAL IMPROVEMENTS TO BE MADE DURING
1889, NOT INCLUDING IMPROVEMENTS UNDER
CONTRACT.

Name of Street.	From	To	How Improved.	Estimated Cost.
Ackley	Broadway.....	Fleet.....	Grading & Culverts	\$ 12,488 19
Ansel	Doan.....	Republic.....	Grading & Curbing	810 64
Arch.....	Croton	Burwell.....	Sewer.....	287 00
*Astor	Dunham.....	Giddings.....	Sewer.....	3,323 00
Atwater	Pratt	Miles.....	Grading & Curbing	638 29
Auburn.....	Pearl	Scranton	Sewer.....	1,592 60
Auburn.....	Scranton.....	Jennings.....	Sewer.....	1,327 00
Auburn.....	Jennings.....	Merchant.....	Sewer.....	586 00
Belden.....	Superior	Payne.....	Sewer.....	3,204 00
Bolton	Euclid.....	Cedar	Grade & Pave.....	7,182 49
Bolton.....	Euclid.....	Hough	Grade	3,300 31
Bolton.....	Cedar	Quincy	Grade & Curb..	2,078 04
Brooker.....	Cedar	Quincy.....	Curb.....	1,810 06
†Brookfield	Euclid.....	Hough	Grade & Curb.....	4,494 14
Buhrer.....	Jennings.....	Scranton.....	Sewer.....	3,037 00
Burwell.....	Case	Wallingford Ct....	Sewer.....	625 00
Burwell.....	Forest	30 ft. W. of Arch...	Sewer.....	357 00
Cologne	Auburn.....	Lamoille	Grade,pave gutters	337 37
Cuyahoga River.....	Government Piers	W. line orig. lot 281	Dredging.....	24,669 62
Croton.....	Jackson.....	Case	Grade & Curb.....	4,329 64
Cedar.....	Perry.....	Willson	Grade & Pave.....	47,444 13
Cross	Woodland	Broadway.....	Grade & Pave.....	4,261 63
Clark	Jennings	Merchant.....	Sewer.....	660 50
Clifton	Payne.....	Kelly.....	Sewer.....	526 00
Crawford	Genesee	Hough	Grade & Curb.....	1,648 41
Cherry.....	Perry.....	Liberal.....	Sewer.....	699 50
Champlain.....	South Water.....	N. line Canal.....	Repave	2,298 03
Canal	S. line Champlain..	S. line Michigan ..	Repave	4,455 62
Case	Croton	Woodland	Sewer.....	1,426 50
Canal.....	Champlain.....	S. line Michigan ..	Sewer.....	1,531 00
Congress.....	N. Woodland.....	160ft.N.Remingt'n	Grade & Curb.....	633 59

TABLE NO. 6.—*Continued.*

Name of Street.	From	To	How Improved.	Estimated Cost.
Clark	Pearl.....	Seranton	Sewer	\$ 509 00
Doan	Euclid	Ansel	Grade	1,073 96
Dodge.....	Euclid	Superior.....	Grade & Curb.....	1,814 71
Dibble.....	Willson.....	Norwood.....	Curb.....	1,023 30
Emmet.....	Marquardt.....	Alley	Grade	164 01
Finney.....	Hooker.....	250 ft. W. of Valley	Grade	331 36
First.....	Garden.....	Quincy.....	Sewer.....	1,413 00
Gordon	Lorain	Bridge.....	Sewer.....	8,060 00
Greenwood.....	Sibley	Garden.....	Grade & Curb.....	801 48
Granger.....	Prospect	Garden	Grade & Curb.....	693 15
Grant.....	Cedar.....	Garden	Sewer.....	1,082 00
Grove.....	Croton.....	Orange.....	Sewer.....	413 00
Giddings.....	Wade Park	Astor	Sewer.....	1,854 00
Heisley	Tod	Wiemer.....	Grade.....	321 31
Holmden.....	Seranton	Jennings	Sewer.....	435 00
Higgins.....	Lorain.....	Clark	Grade.....	417 28
Hunting	Independence.....	North end.....	Grade	376 96
Harbor.....	Franklin.....	Lorain	Grade & Curb.....	3,129 23
Holmden.....	Seranton	Pearl.....	Sewer.....	3,151 00
Hough	East Madison.....	E. line of Holt.....	Grade & Curb.....	4,093 77
Hough	Bolton.....	500 ft. E. of Holt...	Sewer.....	3,404 00
Howlett.....	Guage.....	Burton.....	Grade	756 07
Independence	Broadway	400 ft. S. of Holly.	Pave.....	19,067 13
Jessie.....	Garden	Cedar	Grade	532 15
Keyes.....	Edwards.....	East Madison.....	Grade & Curb.....	578 62
Kirtland.....	Lake	Lake Erie.....	Sewer.....	1,257 50
King.....	Lawrence	Wason.....	Curb.....	896 86
Lorain	Waverly	Ridge.....	Repave	22,531 07
Linwood	East Madison.....	Genesee	Sewer.....	1,623 50
Lisbon	Woodland	South	Grade & Curb.....	587 59
Linden	Scovill.....	Woodland ..	Grade & Curb.....	856 67
Lake.....	Wason.....	Case	Sewer.....	1,746 00
Lake.....	Erie.....	Alabama	Grade & Curb.....	4,749 90
Merchant	Willey	Auburn.....	Sewer.....	2,464 00
Margaret	Kirtland.....	Willson.....	Sewer.....	1,663 50

TABLE NO. 6.—*Continued.*

Name of Street.	From	To	How Improved.	Estimated Cost.
Mayfield	Euclid	City limits	Grade	\$ 512 94
Morse	Euclid	East Prospect	Gravel	509 75
Mayfield	Euclid	City limits	Sewer	1,611 00
Ontario	Lake	St. Clair	Repave	12,635 49
Orange	Forest	Case	Sewer	1,954 00
Ontario	Monumental Sq...	Eagle	Repave	49,804 77
Perry	Cedar	Woodland	Repave	22,036 08
Perry	Euclid	Prospect	Repave	4,895 63
Portland	Kennard	Willson	Grade	704 77
Rossiter	St. Clair	Superior	Grade	121 87
Ruggles	Miles	Pratt	Grade	241 87
Slater	Woodland	Outhwaite	Sewer	521 50
Sterling	Euclid	Hamilton	Grade & Curb	4,182 95
Sherbrook	Superior	North end	Grade & Curb	483 56
Shirley	Sykora	Nuss	Grade	206 24
Sonora	Sterling	Lawrence	Grade	151 41
Street, north side of				
Sterling Place	Waring	Rossiter	Grade	101 15
Street, south side of				
Sterling Place	Waring	Rossiter	Grade	143 53
Sterling	Prospect	Scovill	Grade & Curb	2,129 74
Union	Broadway	Woodl'd Hills Av..	Grade & Cinder	9,383 92
Vermont	Hanover	Pearl	Gr'de & pave gutt's	1,431 10
Vermont	Hanover	Pearl	Sewer	633 00
Worthington	Cliff	End of street	Grade	110 62
Wiley	Merchant	Pelton	Sewer	760 60
Weimer	Kenyon	Fleet	Grade & Culvert	2,011 13
Watkins	Cedar	East Prospect	Curb	363 92
Wallingford Ct	Burwell	Woodland	Sewer	764 00
Willeutt	Woodland	Beaver	Sewer	852 00
Waring	St. Clair	Superior	Grade	45 11
95 Streets				
Total				\$355,243 03

*Two instalments—the last payable with the taxes of 1889.

†Two instalments—the last payable with the taxes of 1888.

TABLE No. 7.

STREET IMPROVEMENTS FOR WHICH APPROXIMATE ESTIMATES, RESOLUTIONS AND ORDINANCES HAVE BEEN PREPARED, IN ORDER TO ASSESS THE TAX (NOT INCLUDING INTEREST.)

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Ansel.....	Doan.....	Republic.....	Grade and Curb.....	\$ 810 64
Arylum.....	St. Clair.....	Superior.....	Grade and Curb.....	998 34
Bolton.....	Quincy.....	Woodland.....	Grade.....	835 32
Berlin.....	Auburn.....	Lamoille.....	Grade and pave Gutters.....	365 71
Brooker.....	Cedar.....	Quincy.....	Curb.....	1,810 06
Bolton.....	Cedar.....	Quincy.....	Grade and Curb.....	2,078 04
Barton.....	Clark.....	Storer.....	Grade.....	1,090 76
Cedar.....	Willson.....	East Madison.....	Repave.....	51,873 96
Croton.....	Jackson.....	Case.....	Grade and Curb.....	4,329 64
Crawford.....	Genesee.....	Hough.....	Grade and Curb.....	1,648 41
Cologne.....	Auburn.....	Lamoille.....	Grade and Pave Gutters.....	337 37
Cross.....	Woodland.....	Broadway.....	Pave.....	4,261 63
Champlain.....	South Water.....	East line of Canal.....	Repave.....	2,238 03
Canada.....	Champlain.....	Center of Michigan.....	Repave.....	4,455 62
Cottage.....	Aetna.....	Marble.....	Grade and Culvert.....	1,668 66

TABLE NO. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Chapel.....	Scovill.....	Woodland.....	Grade and Curb.....	\$ 968 71
Congress.....	Woodland.....	160 feet north of Remington.....	Grade and Curb.....	633 59
Czar.....	Broadway.....	Colorado.....	Grade.....	248 03
Decatur alley.....	Ohio.....	East end.....	Pave.....	7,032 07
East Madison.....	Hough.....	Euclid.....	Repave.....	23,099 03
Edwards.....	Quincy.....	Woodland.....	Curb.....	1,683 74
Ensign.....	Kinsman.....	Willson.....	Grade and Curb.....	680 60
Euclid.....	West line of Erie.....	West line of Perry.....	Repave.....	62,343 07
Euclid.....	Erie.....	East curb of Monumental Square.....	Repave.....	28,657 35
Euclid.....	At southeast corner of Case.....		Pave.....	998 89
Fairbanks.....	Kinsman.....	Colfax.....	Grade.....	172 65
Fenton.....	Kinsman.....	Colfax.....	Grade.....	95 48
Finney.....	Hooker.....	250 feet west of Valley.....	Grade.....	331 36
Fifth.....	Willson.....	Second.....	Pave.....	8,224 65
Fruit.....	Pelton.....	East end.....	Grade.....	139 85
Greenwood.....	Sibley.....	Garden.....	Grade and Curb.....	801 48
Granger.....	Prospect.....	Garden.....	Pave.....	11,085 98
Granger.....	Prospect.....	Garden.....	Macadamize.....	7,342 62
Hunting.....	Independence.....	North end.....	Grade.....	376 96

TABLE No. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Higgins.....	Lorain.....	Clark.....	Grade.....	\$ 417 28
Hough.....	East Madison.....	East line Holt.....	Grade and Curb.....	4,493 77
Harbor.....	Franklin.....	Lorain.....	Grade and Curb.....	3,129 23
Hollister.....	Broadway.....	North end.....	Grade.....	309 05
Hamilton.....	Muirson.....	Dodge.....	Grade and Curb.....	1,115 86
Hough.....	Holt.....	490 feet east.....	Grade and Curb.....	772 07
Keyes.....	East Madison.....	Edwards.....	Grade and Curb.....	578 62
King.....	Lawrence.....	Wason.....	Grade and Curb.....	896 86
Lorain.....	Ridge.....	Gelb.....	Grade.....	3,983 06
Little.....	Auburn.....	Little.....	Grade.....	197 82
Lynn.....	University.....	University.....	Grade.....	308 20
Linden.....	Scovill.....	Woodland.....	Grade and Curb.....	856 67
Laurel.....	Scovill.....	Woodland.....	Grade and Curb.....	1,049 33
Lake.....	Erie.....	Alabama.....	Grade and Curb.....	4,749 90
Logan.....	Cedar.....	1659½ feet south.....	Grade and Curb.....	1,711 10
Mayfield.....	Euelid.....	Limits.....	Grade and Curb.....	512 94
McCurdy.....	Woodland.....	Holton.....	Grade.....	344 37
Maple.....	Garden.....	Scovill.....	Grade and Curb.....	816 96
Mentor.....	Scranton.....	Jennings.....	Grade and Curb.....	1,890 48

TABLE NO. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Oak Grove Lane	Willey	North end	Grade	\$ 146 24
Outhwaite	Kennard	Willson	Grade and Curb	1,005 48
Ontario	Monumental Square	Eagle	Repave	49,804 77
Oregon	Muirson	Oliver	Grade and Curb	3,669 33
Petrie	South end of bridge	Fleet	Grade	2,751 96
Portland	Kennard	Willson	Grade and Curb	704 77
Prague	Gorden	Wine	Grade	415 78
Prospect	Case	Willson	Repave	10,358 95
Prospect	Case	Willson	Repave	25,993 96
Prospect	Center of Erie	Perry	Repave	46,794 61
Quimby	Willson	Norwood	Grade	391 52
Reservoir	Kentucky	West end	Grade	366 08
Reno	Woodland Hills	Limits	Grade	388 74
Sharon	Kinsman	Colfax	Grade	209 11
Sherbrook	Superior	North end	Grade and Curb	483 56
Shirley	Sykora	Nuss	Grade	206 24
St. Clair	East Madison	Becker	Grade and Curb	4,234 00
Sterling	Seovill	Woodland	Grade and Curb	815 52
Tanworth	Helsley	Fleet	Grade and Culvert	1,283 14

TABLE NO. 7.—Continued.

Name of Street.	From	To	Proposed Improvement.	Approximate Cost.
Vermont.....	Pearl.....	Hanover.....	Grade and Curb.....	\$ 1,431 10
Vergennes.....	Mound.....	Fleet.....	Grade.....	1,003 67
Worthington.....	Cliff.....	South end.....	Grade.....	110 62
Watkins.....	Cedar.....	East Prospect.....	Curb.....	383 92
Willson.....	St. Clair.....	Euclid.....	Pave.....	132,554 75
Woodland.....	Willson.....	East Madison.....	Repave.....	56,003 02
Wade Park.....	Norwood.....	East Madison.....	Grade and Curb.....	2,418 82
Yates.....	Starkweather.....	Brayton ..	Grade.....	68 39
Total.....				\$ 602,489 92

TABLE No. 8.
SEWERS FOR WHICH RESOLUTIONS AND ESTIMATES HAVE BEEN PREPARED IN ORDER
TO ASSESS TAX.

Name of Street.	From	To	Estimated Cost.
Arch.....	Croton.....	Burwell	\$ 287 00
Ashland.....	Garden.....	Quincy.....	1,411 00
Auburn.....	Pearl.....	Scranton.....	1,592 60
".....	Scranton.....	Jennings.....	1,327 00
".....	Jennings.....	Merchant.....	536 00
Balden.....	Superior.....	Payne.....	3,204 00
Birch.....	Detroit.....	Southerly.....	373 00
Buhrer.....	Jennings.....	Scranton.....	3,037 00
Burwell.....	Case.....	Wallingford.....	625 00
".....	Forest.....	Westerly.....	367 00
Calvert.....	Cedar.....	Garden.....	677 00
Canal.....	ChAMPLAIN.....	Michigan.....	1,531 00
Case.....	Croton.....	Woodland.....	1,426 50
Cedar.....	East Madison.....	Doan.....	25,325 00
".....	Doan.....	Fairmount.....	3,377 00
Cherry.....	Perry.....	Liberal.....	669 00
Clark.....	Jennings.....	Noyes.....	660 30
".....	Pearl.....	Scranton.....	509 00

TABLE NO. 8.—Continued.

Name of Street.	From	To	Estimated Cost.
Clark	Walworth Run.....	Ridge.....	\$ 9,692 00
Clifton	Payne	Kelley.....	528 00
East Madison.. ..	Lake Erie.....	Lena.....	132,000 00
Engel	Broadway	Tod.....	2,965 00
First	Garden.....	Quincy ..	1,413 00
Giddings	Wade Park.....	Astor	1,854 00
Gordon	Bridge.....	Lorain.....	8,060 00
Grove	Croton.....	Orange.....	413 00
Halsey	Cedar.....	Wain alley ..	960 00
Harbor	Ravine	Lorain.....	4,711 00
Hicks	Bridge.....	"	919 00
Holmden	Pearl	Scranton	435 00
"	Scranton	Jennings ..	3,151 00
Hough.....	Bolton.....	500 feet east of Hough.....	3,404 00
Lake	Case	Wason.....	1,746 00
Lena	Willson.....	Norwood	2,372 00
Linwood.....	East Madison	Gancee.....	1,628 50
Liberty.....	Ravine	Lorain.....	2,541 00
Lincoln	Cedar.....	Quincy.....	5,187 00
Lodge	Garden	"	1,411 00

TABLE NO. 8.—Continued.

Name of Street.	From	To	Estimated Cost.
Margaret.....	Kirtland.....	Willson.....	\$ 1,663 50
Mayfield.....	Euclid.....	City limits.....	1,611 00
Merchant.....	Willey.....	Anburn.....	2,464 00
".....	".....	Cliff.....	3,518 50
Oakdale.....	Cedar.....	Quincy.....	4,821 00
Orange.....	Case.....	Forest.....	1,954 00
Oregon.....	280 feet east of Dodge.....	North Perry.....	513 00
Ravine.....	Harbor.....	Dare.....	6,555 00
Root.....	Ravine.....	Lorain.....	3,886 00
Seymour.....	Pearl.....	Scranton.....	610 00
Slater.....	Woodland.....	Outhwaite.....	521 50
South Bell.....	Cedar.....	Quincy.....	4,327 00
Taylor.....	Ravine.....	Lorain.....	4,112 00
Vermont.....	Pearl.....	Hanover.....	633 00
Vienna.....	Cedar.....	Southerly.....	3,630 00
Wallingford Court.....	Burwell.....	Woodland.....	764 00
Willcutt.....	Woodland.....	Beaver.....	852 00
Willey.....	Merchant.....	Pelton.....	760 60
Woodland.....	East Madison.....	Woodland Hills.....	22,314 00
Total.....			\$ 298,603 20

TABLE No. 9.
SEWER PLANS MADE DURING 1888.

Name of Street.	From	To	Length in Feet.
Abram.....	Clark.....	Rowley.....	440
Arch.....	Croton.....	Burwell.....	320
Ashland.....	Garden.....	Quincy.....	1,000
Auburn.....	Pearl.....	Scranton.....	980
Auburn.....	Scranton.....	Merchant.....	1,880
Birch.....	Detroit.....	southerly.....	350
Birch.....	Bridge.....	Lorain.....	1,100
Birch.....	Ravine.....	Lorain.....	290
Buhrer.....	Jennings.....	Scranton.....	1,650
Burton.....	Bailey.....	Clark.....	2,570
Burwell.....	Forest.....	westerly.....	550
Burton.....	Clark.....	Bailey.....	2,560
Calvert.....	Cedar.....	Garden.....	870
Canal.....	Champlain.....	Michigan.....	1,060
Cedar.....	East Madison.....	Fairmount.....	6,320
Clark.....	Scranton.....	Pearl.....	700
Clark.....	Walworth Run.....	Ridge.....	1,780

TABLE NO. 9. — Continued.

Name of Street.	From	To	Length in Feet.
East Madison.....	Lena	Lake Erie.....	8,150
Engle.....	Broadway.....	Tod	1,430
Euclid.....	Erie.....	North Perry	3,020
Finn.....	Broadway	Sawtell.....	1,125
First.....	Garden.....	Quincy.....	970
Garry.....	East Madison.....	Ingliside.....	700
Giddings	Quincy.....	Woodland	1,650
Giddings	Wade Park	Astor	960
Giddings	Lexington	Euclid	2,460
Gordon	Clark.....	Lorain.....	1,785
Green.....	Monroe.....	Lorain	1,270
Grove.....	Croton	Orange.....	570
Halsey	Cedar	Wain alley	590
Harbor	Ravine.....	Lorain	2,080
Harkness	Hough.....	Euclid	2,350
Harnett.....	Cedar	southerly.....	900
Harriett	Cedar	Harnett.....	1,140
Hicks.....	Franklin.....	Lorain	1,560
Higgins.....	Clark	Lorain	2,010

TABLE NO. 9.—Continued.

Name of Street.	From	To	Length in Feet.
Hough.....	Bolton.....	500 feet east of Holt.....	1,420
Holmden.....	Jennings.....	Pearl.....	2,350
Ingleside.....	Euclid.....	northerly.....	1,420
John.....	Randall.....	Woodbine.....	630
Jennings.....	Clark.....	Brainard.....	1,500
Kingsbury Viaduct Drainage.....	N. Y., C. & St. L. Ry.....	Kingsbury Viaduct.....	730
Lake.....	Case.....	Wason.....	800
Lake.....	Marquette.....	Coe.....	1,100
Lena.....	Willson.....	Norwood.....	1,640
Lincoln.....	Cedar.....	Quincy.....	2,315
Lodge.....	Garden.....	Quincy.....	980
Nursery.....	Finn.....	N. Y., P. & O. Ry.....	1,170
Oakdale.....	Cedar.....	Quincy.....	2,170
Orange.....	Case.....	Forest.....	1,050
Paddock.....	Woodland.....	Onthwaite.....	620
Platt.....	East Madison.....	Linden.....	980
Ridge.....	Denison.....	Lorain.....	3,850
Sayles.....	Cedar.....	Quincy.....	1,810
Sawtell.....	Woodland.....	Plenic.....	2,360

TABLE NO. 9.—Continued.

Name of Street.	From	To	Length in Feet.
Seymour.....	Pearl.....	Scranton.....	820
Star.....	East Madison.....	Siedle.....	1,806
Superior.....	Spring.....	easterly.....	350
Taylor.....	Ravine.....	Lorain.....	1,880
Vermont.....	Pearl.....	Hanover.....	580
Vieina.....	Cedar.....	southerly.....	1,670
Wade Park.....	East Madison.....	Mary.....	2,590
Waverly.....	Lorain.....	C., C. C. & I. Ry.....	1,700
Willcutt.....	Woodland.....	Beaver.....	770
Woodland.....	East Madison.....	Woodland Hills.....	4,865
York.....	Monroe.....	Lorain.....	1,160
Total number of feet.....			106,515

66 Streets. 20,173 miles.

TABLE NO. 10.
SURVEYS MADE IN 1888.

Name.	From	To
Alum St.	Lorain St.	Clark Ave.
Bismark Ave.	North line Sell's allotment.	South line Ambler's allotment.
Buckley St.	Burton St.	Harbor St.
Burton St.	North line Catholic Cemetery	Buckley St.
Cedar Ave.	Bart St.	Streator Ave.
Clark Ave.	Alum St.	City limits, west.
C. & P. R. R.	400 feet south of Holton Ave.	200 feet west of Ellsworth St.
Croton St.	Humboldt St.	Perun St.
Curtiss Ave. Extension	West line of Cobb property	Dorchester Ave.
Division St.	State St.	Water Works lot.
Dorchester Ave.	Euclid Ave.	Hough Ave.
Edwards St.	Quincy St.	Woodland Ave.
Ellsworth St.	Evarts St.	C. & P. R. R.
Gordon Ave.	Wine St.	Clark Ave.
Grand Ave.	C. & P. R. R.	Alley, 160 feet west of East Madison Ave.
Guernsey St.	Lorain St.	C., C. & I. R. R.
Harbor St.	Buckley St.	Ravine St.
Haight St.	Junction St.	Swiss St.
Holton Ave.	Woodland Hills Ave.	Alley, 160 feet east of East Madison Ave.

TABLE NO. 10.—Continued.

Name.	From	To
Logan Ave. and Extension.....	Cedar Ave.....	Quebec St.
Lorain St., south side.....	Dare St.....	Alum St.
Junction St.....	Haight St.....	Ravine St.
Pearl St.....	Angle, south of Run.....	Walworth St.
Perun St.....	Croton St.....	Palacky St.
Platt St. and Extension.....	Lincoln Ave.....	Edwards St.
Purdy St.....	Lorain St.....	C., C., C. & I. R. R.
Quebec St.....	Logan Ave. Extension.....	Streator Ave.
Ravine St.....	Harbor St.....	Dare St.
Rhodes Ave.....	Wade Ave.....	Walworth St.
Swiss St.....	Lorain St.....	Train St.
Streator Ave.....	South line of Sayle allotment.....	Quincy St.
Vega Ave.....	Rhodes Ave.....	Angle next westerly.
Wade Ave.....	Rhodes Ave.....	Angle next westerly.
Waverly Ave.....	Lorain St.....	C., C., C. & I. R. R.
Walworth St.....	Scranton Ave.....	Gordon Ave.

To define line of Superior St. Viaduct right of way at West River St. To reset monument at center of Sibley and Hayward Sts.

To set monument at angle in Kingsbury Viaduct west of Humboldt St. To set monument in Central Viaduct at Jennings Ave.

To locate encroachments on easterly approach to Central Viaduct.

TABLE NO. II.

MAPS OF SUBDIVISIONS, ETC., EXAMINED AND REPORTED UPON BY THE ENGINEER AND APPROVED BY THE COMMON COUNCIL IN 1888.

Name.	Date of Approval.
W. J. Crawford's subdivision of part of original lot 349, East Cleveland Township.....	January 27.
A. W. Morgan's subdivision of part of original lot 318, Newburgh Township	February 24.
G. M. Hicks' subdivision of part of original lot 441, Newburgh Township.....	February 24.
J. H. Webster, assignee, and Mabel Weddell's subdivision of part of 10 acre lots, 89, 90 and 91.....	March 12.
P. D. Brigg's resubdivision of part of Stark and Jones' subdivision in original lots 402 and 404, East Cleveland Township.....	March 26.
A. J. Marsh's resubdivision of subplot 2 of Streator & Adams' subdivision in original lot 408, East Cleveland Township.....	May 7.
Line street dedication, C., C., C. & I. R. R. to west line 2 acre lot 78.....	May 28.
Denison allotment of part of original lots 13 and 14, Brooklyn Township.....	June 11.
Halle & Walworth's resubdivision of Halle & Judson's subdivision in original lot 385, East Cleveland Township.....	June 15.
Joseph Stanley's subdivision of part of original lot 316, Newburgh Township.	June 29.
J. Heina & G. W. Taylor's allotments of part of original lots 425 and 426, Newburgh Township.....	July 2.
W. J. Crawford & Jas. Parmelee's subdivision of part of original lot 347, East Cleveland Township.....	July 2.
M. W. & W. S. Chamberlain's resubdivision of part of former subdivision in original lots 334 and 335, Newburgh Township.....	July 2.
Jane E. Hurlbut, executrix, subdivision of part of 10 acre lots 88 and 89.....	July 2.
Jettie Newman's subdivision of part of original lots 310 and 311, Newburgh Township.....	July 2.
J. M. Hoyt et al. subdivision of part of original lots 347 and 349, East Cleveland Township.....	July 18.
M. Althen's resubdivision of block A of her former subdivision in original lot 67, Brooklyn Township.....	August 24.
P. F. Sidley's resubdivision of part of Thos. Davis' subdivision in original lot 280, Newburgh Township.....	August 24.
Walton Bros. & Hick's subdivision of part of original lot 383, East Cleveland Township.....	August 24.
C. D. Bishop's subdivision of part of original lot 391, East Cleveland Township, resurvey.....	August 24.

TABLE NO. II.—*Continued.*

Isaac Reid estate, subdivision of part of original lots 313 and 314, Newburgh Township.....	Approved. September 7.
Gustave Klaas' subdivision of a part of original lot 309, Newburgh Township.....	September 24.
O. H. Payne's subdivision of parts of 10 acre lots 106, 107 and 108.....	October 5.
G. M. Hick's subdivision of part of original lot 391, East Cleveland Township.	October 5.
Dinceman Decker's subdivision of part of original lots 342 and 391, East Cleveland Township.....	October 5.
Howard White's subdivision of part of original lot 342, East Cleveland Township.....	October 5.
H. P. Crowell's subdivision of part of original lot 349, East Cleveland Township.....	October 19.
Geo. W. Richardson's subdivision of parts of original lots 392 and 393, East Cleveland Township.....	October 22.
Jas. S. Steven's subdivision of part of original lot 409, East Cleveland Township.....	November 2.
H. L. Morgan's subdivision of parts of original lots 323 and 322, Newburgh Township.....	November 12.
A. W. Morgan's subdivision of part of original lot 318, Newburgh Township.	November 19.
Jane Sayle et al. subdivision of part of original lot 409, East Cleveland Township.....	November 30.
Katharina Blatt's subdivision of part of original lot 67, Brooklyn Township.	November 30.
The T. S. Paddock resubdivision of John Outhwaite's subdivision in 10 acre lots 48, 49 and 50.....	December 3.
Wm. H. Hecker's subdivision of part of original lot 344, East Cleveland Township.....	December 28.
Elizabeth Schaefer's subdivision of part of original lot 344, East Cleveland Township.....	December 28.
Spangler heirs' subdivision of parts of original lots 344 and 339, East Cleveland Township.....	December 28.

TABLE NO. 12.
HOUSE NUMBERING MAPS MADE IN 1888.

Name of Street.	From	To	Length in Feet.
Aaron St.	St. Clair St.	Payne Ave.	2,240
Asylum St.	St. Clair St.	Superior St.	1,100
Barkwell Ave.	Dot St.	Broadway.	2,720
Blee Court.	Oak St.	Muirson St.	200
Brainard St.	Jennings Ave.	Seranton Ave.	1,810
Brookfield St.	Hough Ave.	Euclid Ave.	2,150
Buhrer Ave.	Merchant Ave.	Seranton Ave.	2,710
Catharina St.	Gauge St.	Milford St.	460
Clover St.	East View Ave.	Seranton Ave.	880
Crawford St.	Genesee Ave.	City limits.	10,280
Davis Court.	Sawtell Ave.	West end.	880
Delebaugh Ave.	Giddings Ave.	East Madison Ave.	910
Dibble Ave.	Willson Ave.	Norwood St.	1,590
East Madison Ave.	Lake Erie.	Union St.	26,070
Ellsworth St.	Woodland Ave.	C. & P. R. R.	1,240
Essex St.	Gauge St.	Milford St.	460
Euclid Place.	Euclid Ave.	East Prospect St.	850
Forest St.	Cedar Ave.	Broadway.	7,560

TABLE NO. 12.—Continued.

Name of Street.	From	To	Length in Feet.
Frazer Ave.....	Petrie St.....	Dolloff St.....	720
Fullerton St.....	Skinner St.....	Broadway.....	3,900
Hamlet St.....	Broadway.....	Adolpha St.....	1,320
Homer St.....	Skinner St.....	Brecksville Road.....	2,980
Independence St.....	Broadway.....	Fleet St.....	11,480
Kimmel St.....	Bading St.....	Hunting St.....	1,720
Lawn St.....	Waverly Ave.....	City limits.....	2,990
Linden Place.....	Linden Ave.....	East end.....	410
McBride St.....	Dolloff St.....	N. Y., P. & O. R. R.....	1,530
Myrtle Court.....	Sawtell Ave.....	West end.....	740
Pratt St.....	Woodland Hills Ave.....	East end.....	1,080
Rockert St.....	Petrie St.....	Dolloff St.....	540
Shirley St.....	Nuss St.....	Sykora St.....	650
Stoneman St.....	Kinsman St.....	Vernon St.....	1,540
Third Ave.....	Skinner St.....	Brecksville Road.....	2,980
Tod St.....	Union St.....	Fremont St.....	3,820
Valentine St.....	East View Ave.....	Scranton Ave.....	920
Woodland Hills Ave.....	Fairmount St.....	Broadway.....	20,740
Total miles, 23.5.	Total.....		124,080

TABLE NO. 13.
STREET FRONTAGE AND OWNERSHIP MAPS MADE IN 1888.

Name of Street.	From	To	Length in Feet.
Asylum St.....	St. Clair St.....	Superior St.....	1,160
Beraun St.....	Sawtell Ave.....	West end	650
Berlin St.....	Auburn St.....	Lamolle St.....	300
Bolton Ave.....	Quincy St.....	Woodland Ave	2,610
"	"	Cedar Ave.....	2,230
Buhrer Ave.....	Jennings Ave.....	Merchant Ave.....	950
Calvert St.....	Cedar Ave.....	Garden St.....	850
Canal St.....	Champlain St.....	Michigan St.....	750
Case Ave.....	St. Clair St.....	Superior St.....	990
Champlain St.....	South Water St.....	730 feet easterly.....	730
Cologne St.....	Auburn St.....	Lamolle St.....	300
Congress St.....	North Woodland Ave.....	160 feet north of Remington St.....	520
Cottage St.....	Aetna St.....	Marble St.....	1,250
Crawford St.....	Genesee Ave.....	Hough Ave.....	1,720
Decatur Alley	Ohio St.....	East end	1,780
Dike St.....	Quincy St.....	Outhwaite St.....	1,230
Fairbanks St.....	Kinsman St.....	Coffax St.....	380

TABLE No. 13.—Continued.

Name of Street.	From	To	Length in Feet.
Fenton St.....	Kinsman St.....	Colfax St.....	320
Fifth Ave.....	Wilson Ave.....	Second Ave.....	1,150
Finney St.....	Hooker St.....	West end.....	1,180
Florence St.....	Quincy St.....	Woodland Ave.....	1,800
Fruit St.....	Pelton Ave.....	Alley easterly.....	450
Giddings Ave.....	Euclid Ave.....	Hough Ave.....	1,520
Grape St.....	Wine St.....	Schott St.....	860
Greenwood St.....	Garden St.....	Sibley St.....	940
Hamilton St.....	Muirson St.....	Caulfield St.....	430
Harbor St.....	Franklin Ave.....	Lorain St.....	2,190
Higgins St.....	Lorain St.....	Clark Ave.....	1,570
Hollister St.....	Broadway.....	Sawtell Ave.....	1,110
Hunting St.....	Independence St.....	North end.....	1,590
Keyes St.....	East Madison Ave.....	Edwards St.....	610
King St.....	Lawrence St.....	Wason St.....	930
Lake St.....	Erie St.....	Alabama St.....	4,900
Little St.....	Scranton Ave.....	Auburn St.....	580
Longwood Ave.....	Scovill Ave.....	Woodland Ave.....	1,090
Logan Ave.....	Cedar Ave.....	South end.....	1,660

TABLE NO. 13.—Continued.

Name of Street.	From	To	Length in Feet.
Lynn St.....	University St.....	University Alley.....	300
Maple St.....	Garden St.....	Seovill Ave.....	960
McCurdy Ave.....	Woodland Ave.....	Holton St.....	930
Newark St.....	Selden Ave.....	Rhodes Ave.....	2,050
Nursery St.....	Beraun St.....	Praha St.....	450
Oak Grove Lane.....	Willey St.....	North end.....	300
Ontario St.....	Monumental Square.....	Eagle St.....	2,140
Pelton Ave.....	Starkweather Ave.....	Fruit St.....	660
Phillip St.....	Praha St.....	Sawtell Ave.....	880
Portland St.....	Kennard St.....	Willson Ave.....	1,080
Prague St.....	Gordon Ave.....	Wine St.....	830
Praha St.....	Sawtell Ave.....	Nursery St.....	500
Prospect St.....	Case Ave.....	Wilson Ave.....	1,560
Reno St.....	Woodland Hills Ave.....	City limits.....	1,610
Reservoir St.....	Kentucky.....	West end.....	580
Selden Ave.....	Clark Ave.....	South end.....	1,130
Sharon St.....	Kinsman St.....	Colfax St.....	380
Shirley St.....	Sykora St.....	Nuss St.....	680
Sterling Ave.....	Seovill Ave.....	Woodland Ave.....	1,030

TABLE NO. 13.—Continued.

Name of Street.	From	To	Length in Feet.
St. Clair St.....	East Madison Ave.....	City limits.....	1,800
Tamworth St.....	Heisley St.....	Fleet St.....	1,490
University St.....	Starkweather Ave.....	Lynn St.....	400
Vergennes St.....	Mound St.....	Fleet St.....	1,550
Vermont St.....	Pearl St.....	Hanover St.....	540
Victor St.....	Beraun St.....	Praha St.....	430
Wade Park Ave.....	East Madison Ave.....	Norwood St.....	2,400
Watkins Ave.....	Cedar Ave.....	East Prospect St.....	400
Woodland Ave.....	Willson Ave.....	East Madison Ave.....	4,920
Woodland Hills Ave.....	Fairmount St.....	Quincy St.....	1,870
Worthington St.....	Cliff St.....	South end.....	380
Yates St.....	Starkweather Ave.....	Brayton St.....	140
Total number of feet.....			77,940
Total number of miles.....			14.76

TABLE No. 14.

MISCELLANEOUS MAPS MADE IN 1888.

Central Viaduct, plan and elevation.

Superior Street Viaduct east of river and adjacent property, for case in court.

Kingsbury Run Viaduct, through city's allotment of old pest house lot.

Map showing triangulation to connect Superior street at West River street with Central Viaduct at Jennings avenue.

Map showing territory in Newburgh and Brooklyn Townships, annexed to city in 1867, for case in court.

Willow street bridge, showing location and profile.

City's allotment of old pest house lot, showing corrected lines and areas.

Map showing connection of Grand avenue and Ellsworth street with C. & P. R. R.

Map showing connection of Holton avenue with C. & P. R. R.

Three maps showing proposed street in Walworth Run Valley, Scranton to Gordon avenue.

Three large maps showing territory bounded, north by Lorain street, south by Clark avenue, west by Gordon avenue and east by Pearl street, in connection with proposed Walworth street.

Curtis avenue extension to Dorchester avenue, survey map.

Edwards street, Quincy street to Woodland avenue and Platt street extension, survey map.

Platt street extension to Edwards street, appropriation map.

Stanton street extension to East Madison avenue, appropriation map.

TABLE No. 15.
STREETS CROSS-SECTIONED OR LEVELED DURING 1888.

Name of Street.	From	To	Length in feet.	Work Done.
Asylum.....	St. Clair	Superior	1,159	C. S.
Ames Ave	Miles	east end.....	869	"
Ansel Ave	Republic	northerly	1,128	"
Ansel Ave	Republic	Lamont.....	354	L.
Adelbert.....	Euclid.....	Cosad.....	2,289	C. S.
Beyerle.....	Independence.....	west end.....	250	L.
Beyerle.....	Sykora	west end.....	1,688	"
Bayne	Waverly	Gordon	989	"
Burton.....	Clark	Storer.....	2 571	C. S.
Bolton.....	Cedar.....	Quincy.....	2,232	"
Broadway.....	Mead	Center of Union.....	4,340	"
Bragden.....	Milford.....	Hartford.....	415	"
Beck	Case.....	easterly	353	"
Branch	Scranton	Merchant.....	1,702	"
Brough.....	Burton.....	Burton.....	1,225	"
Cross.....	Woodland	Broadway.....	394	"
Cottage.....	Etna.....	Marble.....	1,256	"

TABLE NO. 15.—Continued.

Name of Street.	From	To	Length in feet.	Work Done.
Center St. Bridge and Approaches.....	Willson.....	East Madison.....	443	C. S.
Cedar.....	Ridge.....	Lenox.....	4,930	"
Camden.....	Scovill.....	Woodland.....	1,232	L.
Chapel.....	Cedar.....	Garden.....	947	C. S.
Calvert.....	Congress.....	Bolton.....	840	"
Capitol.....	Congress ..	Oakdale.....	722	"
Carran.....	Wilbur.....	Cedar.....	1,504	"
Centennial.....	Smith.....	Mead.....	377	"
Dakota.....	Willson.....	east end.....	332	"
Drake.....	Edgewood.....	Drake.....	6 0	"
Denver Place.....	Courtland ..	Birch.. ..	894	"
Duke.....	State	Waverly.....	589	L.
Division and Old River.....	Wason.....	Case.....	3,938	"
Dart.....	Willson.....	Kinsman.....	660	C. S.
Ensign.....	Euclid.....	Prospect.....	820	"
Erie.....	Monumental Square.....	Erie.....	457	"
Euclid.....	Willson.....	Drake.....	1,450	"
Edgewood.....	Euclid.....	Cedar.....	1,127	"
East Madison.....			1,262	"

TABLE NO. 15.—Continued.

Name of Street.	From	To	Length in feet.	Work Done.
East Madison.....	Cedar.....	Woodland.....	4,291	C. S.
Franklin Ct.....	Franklin.....	south end.....	723	L.
Franklin.....	Waverly.....	Gordon.....	1,043	C. S.
Florence.....	Scovill.....	Woodland.....	1,258	"
First.....	Woodland.....	Quincy.....	1,921	"
Grand.....	Herald.....	C & P. R'y track.....	2,040	"
Gundry Alley.....	entire length.....		913	"
Giddings.....	Euclid.....	Hough.....	1,524	"
Gary.....	East Madison.....	Ingleside.....	708	"
Hayward.....	Cedar.....	Prospect.....	805	"
Haddock.....	Upton.....	Woodland Hills.....	1,591	"
Hamilton.....	Dodge.....	Ross.....	768	"
Hollister.....	Broadway.....	Sawtell.....	1,125	"
Harbor.....	Franklin.....	Lorain.....	2,197	"
Howard.....	Jennings.....	Scranton.....	834	"
Higgins.....	Lorain.....	Clark.....	1,565	"
Hugo.....	Independence.....	Beyerle.....	256	"
Hunting.....	Independence.....	south.....	270	"
Holt.....	Hough.....	Crawford.....	1,670	"

TABLE NO. 15.—Continued.

Name of Street.	From	To	Length in feet.	Work Done.
Hazard	Superior	Payne	715	C. S.
Harriett	Cedar	Harriett	1,104	L.
Iona	Clark	Storer	2,604	C. S.
Iron Alley	St. Clair	L. S. & M. S. R'y.	1,881	L.
Iron Alley	St. Clair	north	800	C. S.
Iron Alley	St. Clair	north	1,800	"
Jennings	Abbey	north	280	"
King	Wason	Lawrence	934	"
Linden	Woodland	Scovill	1,065	"
Laurel	Scovill	Woodland	1,016	"
Lake	Erie	Alabama	4,986	"
Longwood	Scovill	Woodland	1,087	"
Maple	Garden	Scovill	956	"
Mentor	Scranton	Noyes	1,627	"
McHenry	St. Clair	Payne	2,589	"
Minerva	Hough	north	656	"
N. Y., C. & St. L. R'y tracks			12,487	L.
Otakar	Finn	alley	295	C. S.
Oregon	Muirson	Oliver	3,589	"

TABLE NO. 15.—Continued.

Name of Street.	From	To	Length in feet.	Work Done.
Ontario.....	Monumental Square.....	Central Market Building.....	1,750	C. S.
Old River.....	Taylor.....	Waverly.....	2,304	L.
Outhwaite.....	Willson.....	Kennard.....	1,144	C. S.
Ontario.....	Monumental Square.....	High.....	670	"
Ontario.....	Monumental Square.....	Michigan.....	436	L.
Oakley.....	Milford.....	Hartford.....	416	C. S.
Orange.....	Case.....	easterly.....	284	"
Portland.....	Kennard.....	Willson.....	1,054	"
Pine.....	Sterling.....	Greenwood.....	449	"
Petrie.....	south end of bridge.....	Fleet.....	2,276	"
Petrie.....	south end of bridge.....	south.....	1,400	"
Plati.....	East Madison.....	Lincoln.....	966	"
Quimby.....	Willson.....	Giddings.....	3,287	"
Reno.....	Woodland Hills.....	east of limits.....	1,900	"
Reeves.....	Independence.....	south end.....	1,493	"
Republic.....	Ansel.....	Lamont.....	335	"
Rose.....	Jay.....	Bridge.....	232	"
Republic.....	Euclid.....	Ansel.....	1,995	"
Seneca street bridge.....			463	L.

TABLE NO. 16.
GRADES ESTABLISHED.

Name of Street.	From	To	Length in Feet.	When Established.
Astor.....	Dunham.....	Giddings.....	1,289	December 30, 1887.
Ames.....	Miles.....	597 feet southerly.....	597	January 29, 1888.
Asylum.....	St. Clair.....	Superior.....	1,159	August 10, 1888.
Adelbert.....	Euclid.....	Corad.....	2,239	December 28, 1888.
Beyerle.....	Beyerle Court.....	Winnenden.....	1,694	July 13, 1888.
Beyerle Court.....	Beyerle.....	Independence.....	250	July 13, 1888.
Beck.....	Case.....	East end.....	358	September 21, 1888.
Burton.....	Clark.....	Storer.....	2,571	October 5, 1888.
Croton.....	Jackson.....	Case.....	3,163	January 13, 1888.
Car.....	Broadway.....	Colorado.....	1,008	November 16, 1888.
Carran.....	Congress.....	Oakdale.....	1,504	December 28, 1888.
Deckand.....	Kinsman.....	Colfax.....	365	December 30, 1887.
Decatur Alley.....	Ohio.....	East end.....	1,675	August 10, 1888.
Dart.....	Wason.....	Case.....	66)	October 5, 1888.
Ensign.....	Willson.....	Kinsman.....	820	August 10, 1888.
Fourth.....	Willson.....	Second.....	1,445	December 30, 1887.
Fruit.....	Pelton.....	400 feet easterly.....	400	January 27, 1888.

TABLE NO. 16.—Continued.

Name of Street.	From	To	Length in Feet.	When Established.
Fenton	Kinsman	Colfax	327	December 30, 1887.
Fairbanks	Kinsman	Colfax	387	December 30, 1887.
Grape	Wine	Schott	862	September 21, 1888.
Grand	Herald	C. & P. R'y	1,972	October 5, 1888.
Gundry Alley	Entire length		913	November 16, 1888.
Hough	East Madison	East line of Holt	3,259	April 6, 1888.
Hough	Willson	Dunham	1,946	January 13, 1888.
Herbert	Francis	1,066 feet northerly	1,066	January 13, 1888.
Hamilton	Muirson	Dodge	1,502	January 13, 1888.
Haddock	Upton	Woodland Hills	1,521	June 15, 1888.
Higgins	Lorain	Clark	1,565	June 15, 1888.
Hunting	Independence	270 feet west	270	July 13, 1888.
Hough	Holt	490 feet east	490	July 13, 1888.
Hollister	Broadway	Track	1,161	August 10, 1888.
Holt	Hough	Crawford	1,670	December 28, 1888.
Keyes	Edwards	East Madison	614	December 30, 1887.
Kingsbury Viaduct	Humboldt	Jackson	1,495	April 6, 1888.
Lynn	University	University Alley	300	January 27, 1888.
Laurel	Scovill	Woodland	1,016	August 10, 1888.

TABLE No. 16.—Continued.

Name of Street.	From	To	Length in Feet.	When Established.
McHenry	Payne	Mason	1,181	December 30, 1887.
McCurdy	Woodland	Holton	910	January 27, 1888.
Mentor	Scranton	Noyes	1,627	August 10, 1883.
Marquette	Lake Erie	L. S. & M. S. R'y	605	August 10, 1888.
Oregon	Muirson	Oliver	3,589	August 10, 1888.
Pelton	Starkweather	Fruit	278	January 27, 1883.
Petrie	Fleet	1,125 feet south of Guy	2,276	February 24, 1888.
Pine	Sterling	Greenwood	419	August 24, 1888.
Platt	East Madison	Lincoln	966	October 19, 1888.
Reservoir	Kentucky	West end	618	December 30, 1888.
Reno	Woodland Hills	1,655 feet easterly	1,655	June 5, 1888.
Reeves	Independence	1,494 feet westerly	1,494	July 13, 1888.
Sharon	Kinsman	Colfax	380	December 30, 1887.
South Logan	Cedar	Quebec	1,796	February 24, 1888.
Sykora	Independence	Byerle	250	July 13, 1888.
Stanton	Giddings	East Madison	1,591	December 14, 1888.
Tennyson	Woodland	Evarts	842	December 28, 1888.
Tamworth	Haisley	Fleet	1,490	October 5, 1888.
University Alley	Lynn	Starkweather	395	January 27, 1888.

TABLE NO. 16.—*Continued.*

Name of Street.	From	To	Length in Feet.	When Established.
Vaneek	Kinsman	Fort	2,396	October 5, 1838.
Vergennes	Mound	Fleet	1,553	October 5, 1838.
Worthington.....	Cliff	381 South.....	381	January 27, 1838.
Winnenden	Independence	Beverle	250	July 13, 1838.
Wigman Lane.....	Erie	West end.....	658	November 16, 1838.
Washington	Center.....	Pearl	1,161	December 14, 1838.
61 streets—13.7 miles.	Total number of Lineal Feet...		72,334	

TABLE NO. 17.

SIDEWALK GRADES GIVEN IN 1888.

Name of Street.	Length in Feet.
Asylum	1,320
Becker	1,000
Brooker	4,750
Beyerle	3,245
Bolton	2,732
Cedar	1,100
Dibble	3,180
Genesee	1,056
Howard	1,100
Hamm	3,400
Independence	7,140
Kirtland	3,170
Lincoln	3,660
Meyer	1,000
North Woodland	1,950
Oakdale	1,098
Outhwaite	2,550
Pollock	810
Pine	500
Portage	2,400
Quincy	2,325
Republic	450
Stark	1,000
Sykora	500
Sixth	800
Wade Park	5,960
West Madison	380
Waring	1,820
Willson	1,300
Wallingford	800
Washington	100
Total number of feet	62,596
Total number of miles	11.85

TABLE No. 18.

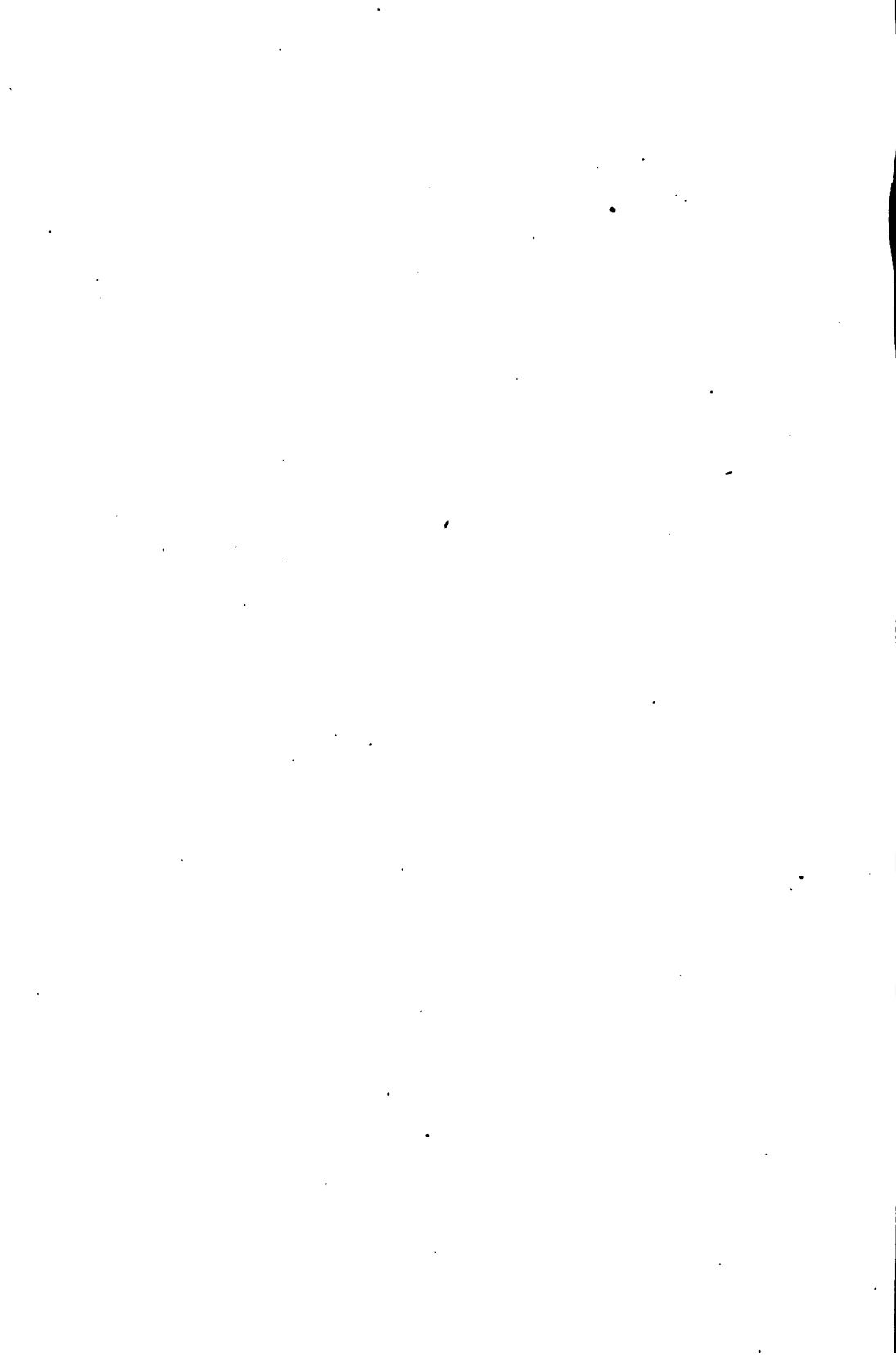
TESTS MADE OF FOREIGN AND DOMESTIC CEMENTS USED IN THE CONSTRUCTION OF THE
CITY'S SEWERS AND BRIDGE MASONRY DURING THE YEAR 1888.

Showing the average tensile strength in pounds per square inch of the various kinds of cements used, the number of such tests and the number of days the briquettes were immersed in water after the usual thirty minutes in air. Three briquettes were usually broken at each test, and their average taken.

Brand of Cement.	One Day.		Two Days.		Three Days.		Seven Days.		Fourt'n Days.		Thirty Days.		Sixty Days.	
	Tests.	Pounds.	Tests.	Pounds.	Tests.	Pounds.	Tests.	Pounds.	Tests.	Pounds.	Tests.	Pounds.	Tests.	Pounds.
Louisville—Domestic.....	73	83.4	4	94.	1	108.	6	112.6	4	130.5	5	217.4	.....	.....
Akron Star—Domestic.....	76	72.7	2	99.	1	95.	13	151.	2	172.	3	273.3	1	416.
Williamsville—Domestic.....	49	77.5	1	80.	1	115.	4	142.	.....	.....	.....	.....	.....	.....
Buffalo—Domestic.....	47	80.5	1	70.	4	100.2	7	145.8	2	169.	.....	.....	.....	.....
Portland (Hilton) English.....	.....	.....	.....	.....	.....	.....	1	560.	.....	.....	.....	.....	.....	.....
Portland (J. B. White & Bro.) English.....	2	130.5	.....	.....	.....	.....	1	270.	.....	.....	.....	.....	.....	.....
Portland (Anchor) English.....	.....	.....	.....	.....	1	325.	.....	.....	.....	.....	.....	.....	.....	.....
Portland (Black Cross) English.....	1	145.	.....	.....	.....	.....	17	352.	.....	.....	5	571.6	.....	.....
Portland (K. B. & S.) English.....	1	180.	.....	.....	.....	.....	2	397.	.....	.....	2	500.	.....	.....
Portland (Diamond) English.....	.....	.....	.....	.....	.....	.....	1	238.	.....	.....	.....	.....	.....	.....
Portland (Dykerhoff & Son) German.....	1	200.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portland (Kuhlman & Myerster) German.....	1	240.	.....	.....	.....	.....	2	300.	.....	.....	.....	.....	.....	.....

Total number of tests 345.

Report of the Fire Department.



BOARD OF FIRE COMMISSIONERS.

ORGANIZED APRIL 19, 1888.

HON. B. D. BABCOCK,
President Ex-Officio.

PETER T. FORSYTH,
Member from the Board of Aldermen.

WILLIAM G. ANDREWS,
Member from the Board of Councilmen.

CONRAD WAGNER,
Citizen Member. Term expires in April, 1889.

LOUIS BLACK,
Citizen Member. Term expires in April, 1890.

MILTON A. GROSS,
Citizen Member. Term expires in April, 1891.

R. D. JONES,
Citizen Member. Term expires in April, 1892.

J. W. DICKINSON,
Chief.

A. J. SPENCER,
Secretary.

STANDING COMMITTEES.

1888-89.

FINANCE, MEN AND DISCIPLINE,

MESSRS. LOUIS BLACK AND R. D. JONES.

BUILDINGS AND REPAIRS,

MESSRS. M. A. GROSS AND C. WAGNER.

ENGINES, APPARATUS AND CONDEMNING,

MESSRS. P. T. FORSYTH AND LOUIS BLACK.

TELEPHONES AND TELEGRAPH,

MESSRS. R. D. JONES AND P. T. FORSYTH.

EQUIPMENTS, WATER AND SUPPLIES,

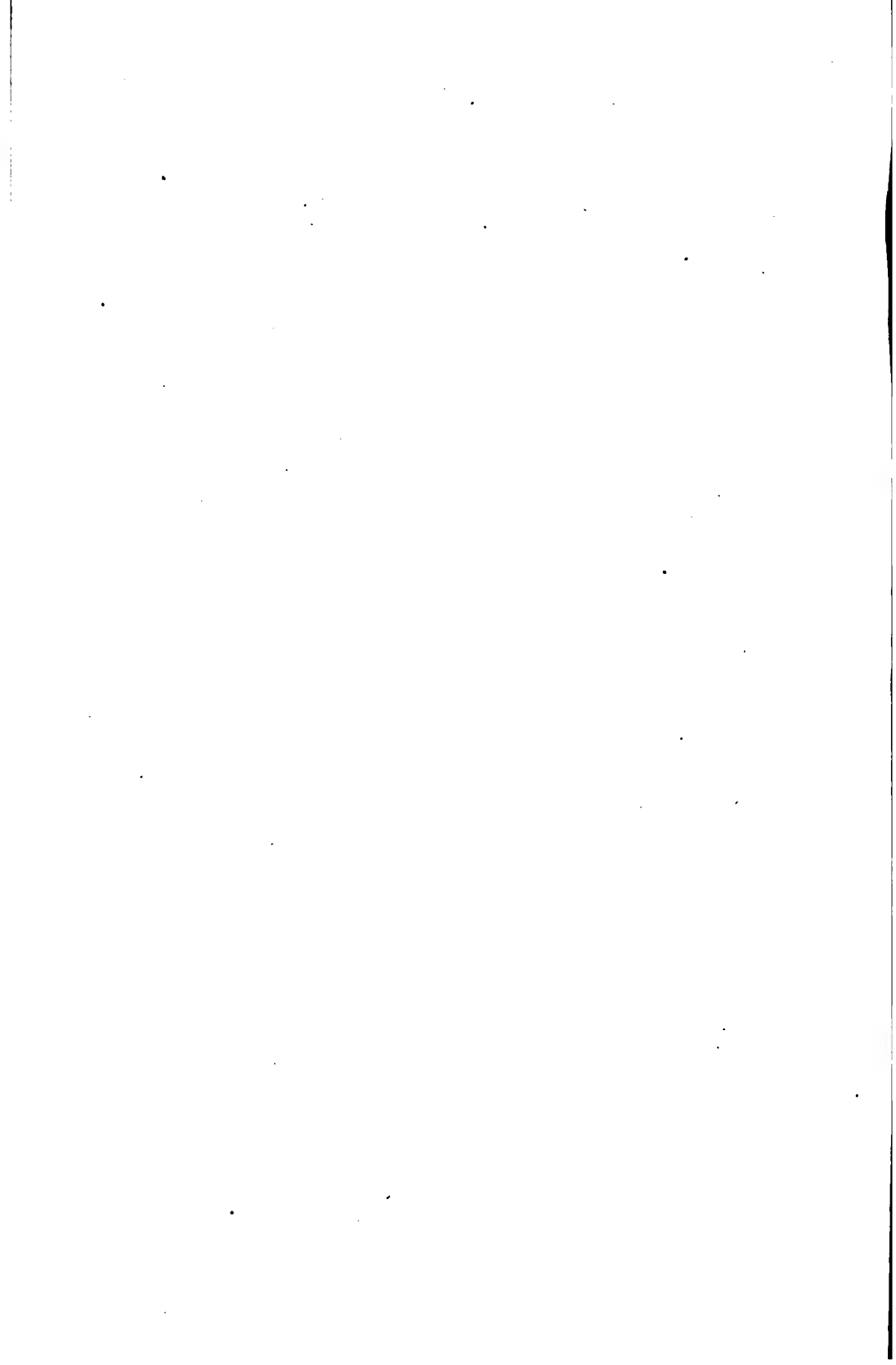
MESSRS. C. WAGNER AND W. G. ANDREWS.

HORSES AND HORSE FEED,

MESSRS. W. G. ANDREWS AND M. A. GROSS.

BOARD MEETINGS,

1ST AND 3RD THURSDAYS IN EACH MONTH.



OFFICERS OF THE DEPARTMENT.

J. W. DICKINSON,

Chief.

Office in the City Hall, Room 13.

H. H. REBBECK,

1st Assistant Chief.

Office in Engine House No. 1.

JOSEPH SPEDDY,

2nd Assistant Chief.

Office in Engine House No. 7.

ARTHUR A. CAVANAH,

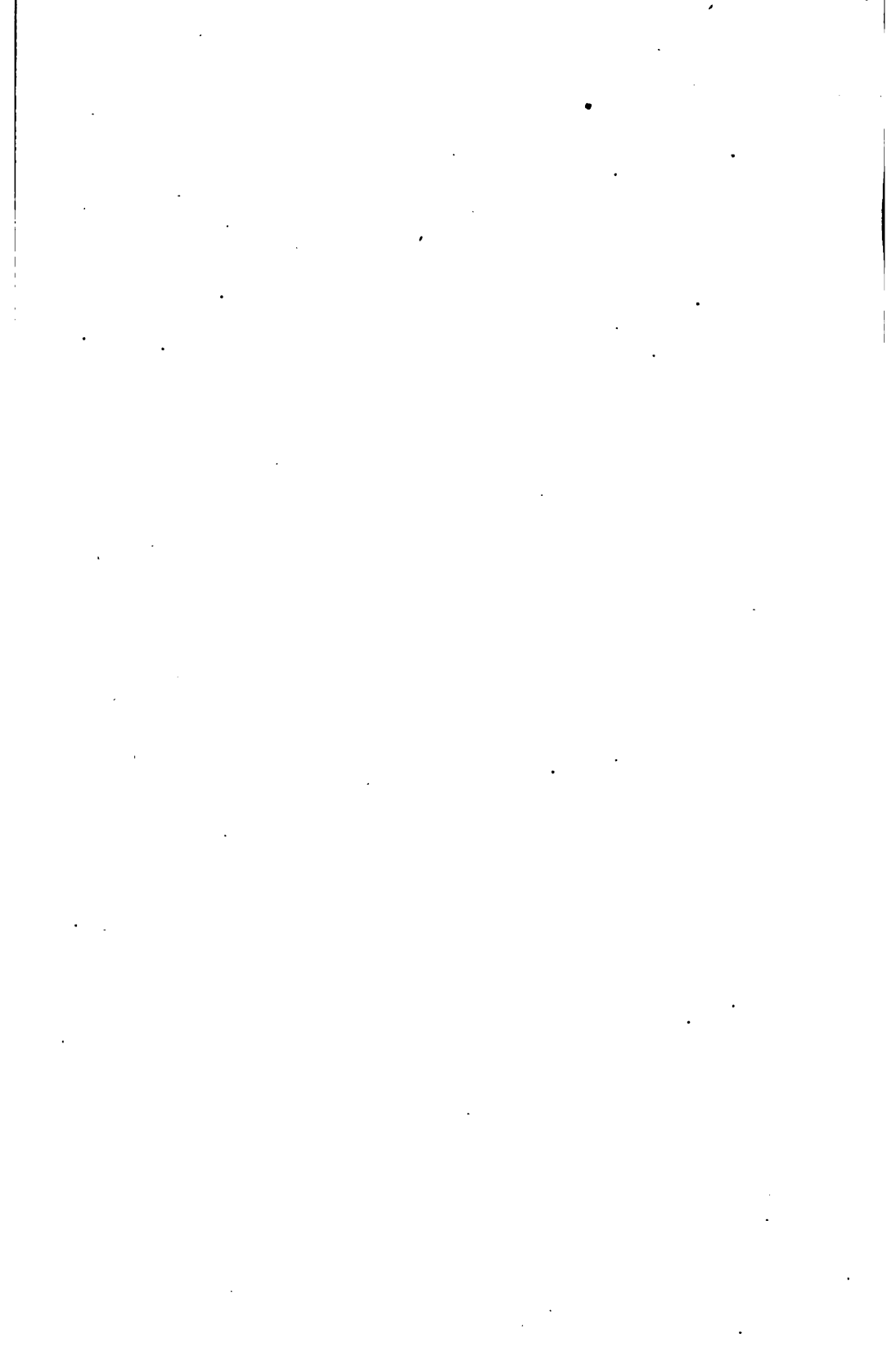
3rd Assistant Chief.

Office in Engine House No. 4.

GEORGE A. WALLACE,

4th Assistant Chief.

Office in Engine House No. 14.



ANNUAL REPORT
OF THE
BOARD OF FIRE COMMISSIONERS.

To the Honorable Common Council of the City of Cleveland, Ohio:

GENTLEMEN:—The Fifteenth Annual Report of the Cleveland Fire Department for the year of 1888, ending December 31, is hereby respectfully submitted.

At the municipal election in April, 1888, Mr. R. D. Jones was duly elected a Fire Commissioner to the vacancy occasioned by the expiration of Mr. J. S. Hartzell's term of four years' service.

The *personnel* of the Board as organized April 19th was changed with Mr. W. G. Andrews in place of Mr. Chas. Burnside, and Mr. R. D. Jones in place of Mr. J. S. Hartzell.

UNIFORMED FORCE.

The uniformed force of the Department consists of one chief; four assistant chiefs; twenty captains; twenty-one lieutenants; fifteen engineers; sixteen assistant engineers; eighty-nine firemen, and twenty-three cadets.

FIRE ALARM TELEGRAPH.

Three operators and two linemen.

EMPLOYEES.

One superintendent of machinery; one store-keeper; one veterinary, and one surgeon.

The full force of the Fire Department consists of one hundred and ninety-nine men.

RESIGNED DURING THE YEAR.

April 19.—Mr. Nelson Fairchilds.

May 5.—Mr. John Flinn.

July 5.—Mr. George Marsh.

Sept. 20.—Mr. Charles W. Fay.

Sept. 20.—Mr. Herbert F. Cook.

Oct. 4.—Charles W. Coyne.

Nov. 15.—Charles Wolf.

RETIRED FROM ACTIVE SERVICE AND PLACED ON PENSION ROLL.

April 19.—Robert Murphy.

May 17.—Jacob Koehl.

May 17.—Michael Mulcahey.

Nov. 15.—Frank E. Davis.

DEATHS DURING THE YEAR.

October 17.—Timothy Graham, while practicing with pompier ladder, fell, receiving injuries from which he died October 20.

REPORTED FOR VIOLATING RULES.

Mar. 3.—David Jones, for violating Rule 25.

Mar. 19.—George Eichhorn, for violating Rule 28.

Mar. 19.—Matt Miller, for violating Rule 25.

June 7.—Charles E. Varner, for violating Rule 28.

July 5.—George Marsh, for violating Rule 25.

Sept. 6.—D. R. McClellan, for violating Rule 31.

Oct. 18.—Robert Jones, for violating Rule 28.

Dec. 6.—Peter J. Carney, for violating Rule 25.

Dec. 6.—Frank McKenna, for violating Rule 28.

Dec. 20.—August Kampfe, for violating Rule 5.

FIREMEN APPOINTED.

Peter J. Carney.

Thomas O'Connell.

James Freeman.

William J. Axford.

CADETS APPOINTED.

D. R. McClellan.	Nelson Cheney.
Vincent Seidel.	Timothy Graham.
William MacFeeters.	William M. Hanks.
Patrick H. Devine.	George H. Haywood.
John F. Gillson.	Edward Grady.
William Marsh.	George Chamberlain.
William O. Koze.	Ed. H. Nelson.
Charles A. Fischer.	Arthur S. Pickering.
August Kampfe.	William S. Roth.
Charles W. Coyne.	Frank McKenna.
James P. Seaborn.	Michael Maloney.
William D. Jeffers.	D. J. T. Lewis.
Reinhold Reichert.	Michael Cunningham.
Theodore Raddish.	

FIRE DEPARTMENT FUND.

Resources.		
Balance on hand January 1, 1888.....	\$ 2,079 91	
City Tax Levy.....	232,326 32	
Transferred from Market Fund.....	5,000 00	
Deposits from warrants, cash, etc.....	1,608 04	
		\$ 241,014 27
Disbursements.		
Services	\$ 186,912 30	
Claims.....	46,202 04	
Real estate.....	1,000 00	
		\$ 234,114 34
Balance.....		6,899 93
Total		\$ 241,014 27

\$5,000 from the Market Fund to purchase land.

FIRE DEPARTMENT FUND.—*Continued.*

	Disbursements.		Receipts.
	Pay Roll.	Claims.	
Cash on hand January 1, 1888.....			\$ 2,079 91
January	\$ 14,884 31	\$ 3,514 10	71 80
February	14,817 65	2,773 55	147 50
March	15,054 85	2,972 71	5,178 22
April	14,709 69	3,571 93	18 70
May	14,724 06	3,996 69	138,308 43
June.....	15,820 64	4,014 19	136 25
July	16,509 48	6,200 00	51 50
August	16,252 77	4,764 75	65 55
September	16,330 17	3,279 97	289 82
October	16,116 10	4,305 34	383 80
November	15,932 66	3,372 36	94,047 89
December.....	15,809 92	4,436 45	173 65
			83 00
	\$ 186,912 30	\$ 47,202 04	8 25
Total expenses.....		\$ 234,114 34	
Balance on hand December 31.		6,899 93	
Total		\$ 241,014 27	\$ 241,014 27

Not included in the receipts is an item of \$16,291.58, denominated "suspended accounts," credited to the department fund September 27, 1888.

AGGREGATE AMOUNT OF CLAIMS.

Real estate.—Lot on Woodland avenue.....	\$ 1,000 00
Paving.....	605 30
Services.....	186,912 30
Buildings and repairs.....	4,394 24
Apparatus and repairs.....	8,045 19
Shoeing and horses.....	5,643 76
Horse feed and bedding.....	7,918 54
Harness and harness shop.. ..	461 95
Hose and hose shop.....	2,880 50
Fuel and lights.....	5,263 25
House supplies and washing.....	1,855 97
Miscellaneous supplies.....	4,477 46
Office expenses.....	43 44
Contingent expenses.....	862 91
Repairs on reservoirs.....	143 97
Telegraph.....	3,605 49
Total.....	\$ 234,114 54

COMPANY EXPENSES IN 1888.

Company.	Co.	No. Men.	Amount.
Fire Station No. 1, corner of Academy and St. Clair.....	1	9	\$ 9,231 05
" " 2, Champlain street, near Ontario.....	2	12	13,504 21
" " 3, Huntington street, Garden.....	3	9	9,533 75
" " 4, Church street, corner State.....	4	9	10,053 99
" " 5, Phelps street, near St. Clair.....	5	8	9,188 06
" " 6, Brainard street, near Lorain.....	6	10	11,070 48
" " 7, Forest, near Garden.....	7	10	10,681 27
" " 8, Scranton, near Starkweather.....	8	8	10,378 33
" " 9, Willson, near Woodland.....	9	9	9,505 53
" " 10, Doan, near Euclid.....	10	7	8,760 49
" " 11, Sawyer, near Walker.....	11	8	9,225 57
" " 12, Lorain, near Waverly.....	12	8	9,484 67
" " 13, Broadway, near Petrie.....	13	9	9,643 11
" " 14, Chestnut, near Muirson.....	14	9	9,958 28
" " 15, Walton avenue—H. & L. Co.....	5	7	6,709 06
Fire Boat.....	15	9	10,516 37
Hook and Ladder Company No. 1, at Fire Station No. 1.....	1	13	11,850 72
" " " 2, " " " 4.....	2	15	11,716 53
" " " 3, " " " 9.....	3	8	8,613 92
" " " 4, " " " 11.....	4	7	6,759 47
Supply Company No. 1.....	1	1	2,787 92
" " 2.....	2	1	2,457 05
" " 3.....	3	1	1,992 74
" " 4.....	4	1	2,171 61
Telegraph Company.....		5	11,839 84
Total.....			\$ 217,634 02

4,000 feet of cotton hose purchased from Boston Woven Hose Co..... \$ 2,200 00

500 feet of cotton hose purchased from New York Belting and Packing Co..... 300 00

FIREMEN'S PENSION FUND.

Resources.		
January 1, 1888, balance in cash on hand.....	\$ 2,904 11	
March 1, 1888, 15 coupons Fostoria Bonds.....	450 00	
April 18, 1888, collection from County Treasurer.....	19,410 35	
September 1, 1888, 15 coupons Fostoria Bonds.....	450 00	
September 18, 1888, collection from County Treasurer.....	1,284 48	
October 1, 1888, 15 coupons East Liverpool Bonds.....	375 00	
Deposits.....	55 73	
		\$ 24,929 67
Disbursements.		
April 1, 1888, bought 15 East Liverpool Bonds.....	\$ 15,000 00	
April 1, 1888, premium on the same.....	172 90	
July 1, 1888, rent on box.....	5 00	
Paid Jas. Van Develde	600 00	
" Maurice Price.....	600 00	
" Charles Sumner.....	600 00	
" Harry Orland	600 00	
" Robert Murphy.....	418 33	
" Michael Mulcahey.....	372 58	
" Jacob Koehl.....	337 50	
" Frank E. Davis	75 00	
" George Speddy.....	25 00	
" Mrs. Helen M. Gillson	384 00	
" Mrs. Maggie Harmon	456 00	
" Mrs. Lucy A. Hartzell.....	456 00	
" Mrs. Nellie Speddy.....	434 09	
" Mrs. Mary Knowles.....	312 00	
" Mrs. Mary Gensert.....	312 00	
" to pensioners.....		\$ 5,982 50
" for bonds, premium and box rent.. ..		15,177 90
Total expenses.....		21,160 40
Balance carried forward.....		3,769 27
Total		\$ 24,929 67

TOTAL RESOURCES OF FIRE DEPARTMENT FUND.

Balance on hand, cash.....	\$ 3,769 27
15 Fostoria Bonds.....	15,000 00
15 East Liverpool Bonds.....	15,000 00
	————— \$ 33,769 27
Interest on bonds yearly.....	1,650 00

Robert Murphy, Michael Mulcahey, Jacob Koehl and Frank E. Davis, were added to the list during the year.

J. D. Barlow, Richard Gorman and W. W. McMahon, were elected as members of the Board of Trustees of the Pension Fund.

HORSES PURCHASED DURING THE YEAR 1888.

Date of Purchase.	Of Whom Purchased.	No. of Horses.	Amount.
January 6.....	Aaron Schwab.....	163	\$ 275 00
“ 13.....	“	164	260 00
“ 30.....	F. Emrich.....	165	250 00
February 11.....	Aaron Schwab.....	166	250 00
March 2.....	“	166	265 00
June 12.....	“	167	290 00
“ 29.....	F. Emrich	168	275 00
July 20.....	Jackson & Johns.....	169	250 00
August 7.....	“	170	260 00
October 30.....	Aaron Schwab.....	171	250 00
November 20.....	Thorman Brothers.....	172	275 00
“ 21.....	F. Emrich.....	173	250 00
December 1.....	W. J. Crowell.....	174	250 00
“ 6.....	Thorman Brothers...	175	250 00
“ 26.....	John Albinger.....	176	225 00
“ 29	Aaron Schwab.....	177	275 00
16 horses cost.....	.....	.....	\$ 4,150 00

August 1, 1888, one horse died.

HORSES SOLD DURING THE YEAR.

Date of Sale.	To Whom Sold.	No. of Horses.	Amount.	
January 22.....	C. Schuppe.....	22	\$ 25 00	
February 15.....	Dan. O'Niell.....	23	60 00	
January 25.....	Mr. Ressler.....	28	65 00	
February 11.....	Aaron Schwab.....	40	70 00	
" 14.....	Dan. O'Niell.....	70	75 00	
May 30.....	Jas. W. Bernard.....	76	80 00	
October 25.....	William Dewald.....	77	75 00	
January 13.....	Aaron Schwab.....	103	135 00	
August 14.....	Rhodes & Beidler.....	117	100 00	
July 31.....	" ".....	127	150 00	
September 15.....	Geo. Quigley.....	145	130 00	
November 20.....	H. S. Hartzell	158	75 00	
				\$ 1,030 00

HORSE FEED AND BEDDING.

Bought in 1887, and paid for in 1888:

53,636 pounds hay.....	\$ 426 74
100 bushels oats.....	38 00
2,000 pounds bran	19 50
650 pounds straw.....	3 25
20 bushels corn.....	11 00
10 loads sawdust ..	10 00
Pasturage	146 05
Total.....	\$ 654 54

Shoeing in 1887, and paid for in 1888, \$257.38.

HORSE FEED AND BEDDING IN 1888.

JANUARY 1 TO DECEMBER 1.

402,194 pounds hay.....	\$ 3,273 06
7,856 bushels oats.....	3,072 43
28,147 pounds middlings.....	275 54
101,664 pounds straw.....	449 89
342 3-5 bushels carrots.....	85 65
120 bundles corn stalks.....	12 00
Pasturage.....	28 50
61 loads sawdust.....	75 25
35 bushels corn in ear	20 00
Total.....	\$ 7,232 32

SHOEING.

Cost of shoeing in 1888.....	\$ 1,874 55
Cost of feeding each horse per day	24 cents.
Cost of shoeing each horse per day.....	6 cents.

COAL.

2,471,610 pounds of coal used.

GAS.

1,658,500 feet of gas used.

STATEMENT OF ALARMS, LOSSES AND INSURANCE.

Months.	Box Alarms	Still Alarms	Total.	Owners' Loss.	Occupants' Loss.	Owners' Insurance.	Occupants' Insurance.
January	47	5	52	\$ 12,259 65	\$ 53,324 74	\$ 87,900 00	\$ 91,360 00
February	55	10	65	33,893 13	50,824 00	300,450 00	119,800 00
March	50	2	52	11,289 68	6,795 00	153,600 00	35,700 00
April	81	6	87	41,234 85	1,313 74	317,150 00	7,700 00
May	59	2	61	12,360 80	46,745 00	147,100 00	30,250 00
June	44	3	47	23,737 25	16,918 00	118,000 00	41,150 00
July	54	2	56	13,271 03	3,584 27	159,750 00	54,500 00
August	44	7	51	13,445 00	4,620 00	226,800 00	7,800 00
September	51	6	57	54,919 50	2,131 00	18,200 00	5,600 00
October	37	6	43	7,568 60	813 00	14,100 00	86,975 00
November	42	6	48	11,819 50	25,959 81	263,250 00	89,300 00
December	50	7	57	86,235 33	6,186 00	263,150 00	9,300 00
Total	614	62	676	\$ 322,034 29	\$ 219,214 56	\$2,069,450 00	\$ 529,435 00

Total loss on buildings and contents, \$341,248 85.

CASUALTIES.

Citizens suffocated, burned or died from injuries received at fires—males.....	3
“ “ “ “ “ “ —females	7
Severely burned—males.....	10
“ —females.....	2
Slightly burned—males	4
“ —females.....	1
Firemen injured in line of duty (three legs broken).....	11
Horses suffocated or burned to death.....	15

ALARMS AND CAUSES.

Accidental.....	7
Carelessness.....	89
Chimneys burning.....	27
Children playing with fires.....	9
Children playing with matches.....	13
Defective flues.....	57
Defective grates.....	7
Defective furnaces.....	3
Drying plaster.....	2
Electric light wires.....	7
Explosions.....	7
Friction.....	2
Fire-works.....	12
False alarms.....	14
Fumigating.....	1
Gasoline ignited.....	35
Hot ashes.....	8
Hot journal.....	1
Hot iron.....	2
Incendiary.....	32
Ignition of gas.....	3
Ignition of chemicals.....	3
Lightning.....	3
Lamp explosions.....	6
Leaky oil stills.....	5
Overheating.....	32
Out of the city.....	7
Old fires renewed.....	2
Rags and rubbish burning.....	12
Straw burning.....	2
Sparks.....	121
Smoke.....	16
Smoking while in bed.....	1
Spontaneous combustion.....	12
Unknown.....	115
Varnish boiling over.....	1
 Total.....	 676

2½ INCH HOSE IN SERVICE DECEMBER 31, 1888.

Name of Manufacturer.	Brand.	No. of Feet.
American Hose Manufacturing Co.....	Double Jacket.....	5,300
Fabric Fire Hose Co.....	Unique	5,150
Eureka Fire Hose Co.....	Eureka	600
" "	Surprise	50
New York Belting and Packing Co	Cable.....	500
Hamilton Rubber Co.....	Hercules.....	1,000
New York Belting and Packing Co.....	Test	1,000
Ohio Rubber Company.....	Victor	1,250
Gutta Percha and Rubber Co.....	Carbolized.....	600
Boston Belting Co.....	Excelsior	300
Samuel Eastman & Co.....	Leather.....	700
Total number of 2½ inch hose in service.....		16,450
" " 3½ " "		1,150
" " 1½ " "		100
" " ¾ " "		700
" " 4 " "		16
Total.....		18,416

AMOUNT OF HOSE IN THE DEPARTMENT.

Name of Manufacturer.	Brand.	No. of Feet.
American Hose Manufacturing Co.....	Double Jacket—Cotton..	5,400
Fabric Fire Hose Co.....	Unique “	5,250
Eureka Fire Hose Co.....	Eureka “	600
“ “	Surprise “	50
New York Belting and Packing Co.....	Cable “	500
Boston Woven Fire Hose Co.....	Bay State “	4,000
Hamilton Rubber Co.....	Hercules—Rubber	1,000
New York Belting and Packing Co.....	Test “	1,000
Ohio Rubber Co.....	Victor “	1,250
Gutta Percha and Rubber Manufacturing Co.....	Carbolized “	700
Boston Belting Co.....	Excelsior “	300
Samuel Eastman & Co.....	Impr'd Stand'd-Leather	800
Amount of 2½ inch hose.....		20,850
American Hose Manufacturing Co.....	3½ inch.....	1,150
Ohio Rubber Co.....	1½ “	100
Chemical Co.....	¾ “	700
Hose burst during the year.....		2,900
Hose repaired during the year.....		1,650
Net loss.....		1,150

HOSE IN STORE ROOM DECEMBER 31, 1888.

Name of Manufacturer.	Brand.	Date of Contract.	No. of Feet Purchased.
Gutta Percha and Rubber Manufacturing Co.	Carbolized	April, 1883.....	100
Fabric Fire Hose Co.....	Unique	September, 1882....	50
" "	"	July, 1887.....	50
American Fire Hose Co.....	Jacket	August, 1886	100
Samuel Eastman & Co.....	Leather.....	October, 1886.....	100
Boston Woven Hose Co	Bay State.....	April, 1888.....	4,000
Total number of Feet.....	.....	.....	4,400

HOSE PURCHASED DURING THE YEAR.

From the New York Belting and Packing Co..... 500 feet @ 60c.= \$ 300
 From the Boston Woven Hose Co..... 4,000 feet @ 55c.= 2,200

CHARACTER OF LOSSES.

	Frame.	Brick.	Stone.	Total.
Dwellings	236	12		268
Barns	35	2		37
Stores	7	2		9
Still-houses	5			5
Tar still	1			1
Grocery	5			5
Upholster works	1			1
Church	1			1
Japanning works	2	2		4
Saloons	9	7		16
Boiler house	1	2		3
Dwelling and saloon	9			9
Dwelling, saloon and grocery	3			3
Dwelling and shoe store	1			1
Dwelling and bakery	2			2
Dwelling and market	2			2
Dwelling and tailor shop	1			1
Dwelling and store	12	2		14
Paint works	1	2		3
Rolling mill	3			3
Boarding house	2			2
Hot house	1			1
Factories	5	3		8
Mills	3	1		4
Machine shop	1	1		2
Fence	4			4
Gas house	1	1		2
Livery stable	2	2		4
Office	4			4
Shop	12	2		14
Market	1			1
Sheds	17	1		18
Switch house	1			1
Packing house	1			1
Out-house	3			3

CHARACTER OF LOSSES.—*Continued.*

	Frame.	Brick.	Stone.	Total.
Varnish works.....	1			1
Foundry.....	4	3		7
Woolen works.....	1	1		2
Fruit stand.....	2			2
Bakery and grocery.....	2			2
Planing mill.....	2	1		3
Sash and door factory.....	1			1
Blocks.....	5	44	1	50
Furniture store.....	1			1
Tenement house.....	23	11		34
Tannery.....	1			1
Buildings.....		10		10
Restaurant.....		1		1
Lamp works.....		2		2
Treating house.....		2		2
Drug store.....		1		1
Grocery and store.....		1		1
Brick works.....		1		1
Petroleum works.....		1		1
Spring works.....		1		1
Brick hotel.....		3		3
Ward house.....	2	3		5
Wax works.....		1		1
Box factory.....		1		1
Cabinet works.....		1		1
Depot.....			1	1
Brick and frame boarding house.....		1		1
Brick and frame packing house.....		1		1
Brick ash vault.....		1		1
Brick and frame pattern shop.....		1		1
Brick kiln.....		1		1
Arch.....	1			1
Brick saloon and tenement.....		3		3
Smoke house.....	1			1
Car house and barn.....	1			1

CHARACTER OF LOSSES.—*Continued.*

	Frame.	Brick.	Stone.	Total.
Dock.....	3			3
Lumber yards.....	3			3
Hoisting machine.....	2			2
St. Vincent Asylum.....	1			1
Cooper shop.....	1			1
Bridge.....	1			1
Laundry.....	1			1
Freight car.....	2			2
Calaboose.....	1			1
City Hall.....			1	1
Charcoal.....				1
Elevator flouring mills.....				1
Otis Steel Works.....				1
Oil.....				1

The following reports are also respectfully submitted:

Chief's annual report.

Superintendent of machinery's report.

Department Surgeon's report.

Veterinary's report.

By order of the Board.

A. J. SPENCER,

Secretary.

Report of Chief of Fire Department.

CLEVELAND, O., December 31, 1888.

To the Honorable the Board of Fire Commissioners :

GENTLEMEN :—I have the honor to submit to you my Eighth Annual Report of the work, condition and requirements of the Fire Department of this city for the year ending December 31, 1888.

Throughout the past year the Department has responded to 614 box alarms and 62 still alarms, making 676 alarms of fire; compared with last year there was an increase of 24 alarms the present year. Within that period of time there were 16 false alarms, 17 calls for assistance and 247 working fires.

The amount of fire loss in 1888 was distributed as follows: On buildings, \$322,024.29; on contents, \$219,215.56, making a total of \$541,239.85, which was covered by \$2,662,885 of insurance.

In responding to alarms 5,845 $\frac{1}{8}$ miles have been traversed, and 1,223 hours of actual service performed at fires. The general delivery wagon, the past year, has traveled 2,631 miles to do the work of the Department assigned to it.

I would respectfully invite your particular attention to the comparison of the amount of hose destroyed during the following years:

1884, 7,550 ft.; 1885, 2,300 ft.; 1886, 6,180 ft.; 1887, 3,900 ft.; 1888, 1,150 ft.

I attribute this saving in the amount of hose destroyed the past two years as compared with former years, to the proper regulation of the pressure of our engines, and also to the more discreet management of "shut off" nozzles, while in use at fires, with cotton hose.

The following table exhibits in detail the work performed by each Company the past year :

SUMMARY OF THE WORK PERFORMED BY THE FIRE DEPARTMENT IN 1888.

Companies.	Fires Attended.	Working on Fires.	Hours Worked.	Miles Run.	Hose Used.	Veterinary Surg. Visits.
Engine Co. 1.....	119	30	48¾	187¾	13,800 ft.	29
" " 2.....	167	34	49	194¼	13,150 "	15
" " 3.....	198	44	35¾	384¾	28,350 "	56
" " 4.....	142	24	36½	286	13,800 "	9
" " 5.....	75	35	46	94¼	14,750 "	10
" " 6.....	130	30	44¾	211¾	15,750 "	5
" " 7.....	154	45	56¼	421¼	24,000 "	14
" " 8.....	72	19	44½	181¼	11,700 "	10
" " 9.....	96	27	33	207½	16,550 "	27
" " 10.....	26	10	14½	67½	4,950 "	3
" " 11.....	71	27	47¾	225¾	24,600 "	3
" " 12.....	65	24	48	109	18,050 "	10
" " 13.....	96	29	30½	304¾	24,250 "	4
" " 14.....	200	30	43¼	343½	10,350 "	12
" " 15*.....	91	13	71¾	228¼	3,300 "	.....
H. & L. No. 1.....	215	128	152	467½	.....	28
" " 2.....	191	112	109¾	387	.....	7
" " 3.....	188	88	81½	553¾	.....	27
" " 4.....	67	44	60¾	214¼	.....	3
" " 5.....	45	26	46¼	108¾	2,800 "	2
Aerial Ladder.....	19	.....	8	9	.....	.....
Chemical A.....	217	82	49	274½	19,750 "	.....
Chemical B.....	197	57	63½	382	14,250 "	.....
Total.....	676	247	1,223	5,845¾	274,150 ft.	274

*Hours breaking ice, 39¾. Miles run, 145¾.

The Fire Boat continues to give great satisfaction, and a strong sense of security from destruction by fire to the business community along the river fronts. There is a loud call for another Fire Boat. I would call the special attention of your Honorable Body to the fact that the present Fire Boat should at once have placed within it a double propelling engine; this is rendered necessary owing to the great weight of the boat, and the danger of collision while going to or returning from fires, as any one of which may cost the city much more than the price of such an engine.

The Pompier Ladder system is now in successful operation and has proved an invaluable auxiliary to the Fire Department. Trucks 1, 2 and 3 are equipped. Towers have been built for trucks 1 and 2, and one ought to be erected for truck 3. The drill is practiced in the summer months and all the men who are willing to do so practice the drill.

As we have annually heretofore advised and urged the passage of a building inspection law, we are gratified that such a law is now in full and successful operation in this city. I am under obligations to Inspector Dunn for the following valuable statistical information relative to the number of Brick or Stone and Frame buildings erected, together with the additions and alterations made to others, from June 1st, 1888, the date at which the new law went into operation, and up to December 31st, 1888:

Number of Brick or Stone Buildings erected	76
Number of Wooden or Frame Buildings erected	1,101
Number of Additions or Alterations	441

Making a total of	1,618
At an estimated cost of	\$3,031,988

In addition to our inspection law the statute should be so amended that in conforming itself to the rules and regulations of this department it ought to require a thorough inspection of every building by Company Officers in their respective districts, in order thereby to acquaint themselves with the structures therein and their contents. The only sure way to reduce the number of fires is by a complete inspection of every building in this city.

The rules of your Honorable Body relating to the civil service have been thoroughly observed and enforced throughout the department the past year.

To make the apparatus more efficient in extinguishing fires there should be a more abundant supply of water in numerous localities throughout the city, and only those hydrants of the most modern pattern placed on our streets, and these in closer proximity to each other than those already erected are, so that our engines can be brought nearer to fires, shorter lines of hose laid out, less friction caused and better streams of water secured. Trained men, good apparatus and hose, and excellent horses are of very little use at a fire without plenty of water.

The Telegraph Department needs a complete overhauling. To this end new office instruments should replace the worn out ones now in use. At the earliest practicable moment there ought to be an abandonment of the old and unreliable "Allen" fire alarm boxes, and those of a modern pattern substituted for them. However experienced and competent the operators in the fire alarm office may be, no satisfactory results can be obtained in this important branch of the service, with the present defective, old and unreliable office instruments and fire alarm boxes now in use. The loss of a few minutes time after the discovery of a fire often means the loss of thousands of dollars worth of property and sometimes human life. The importance of a system of prompt and definite alarms cannot be overestimated. Just here, I desire to call the attention of your Honorable Body to the further fact that there are twenty connections on the telephone switch-board, in the fire alarm office, that have no business whatever with the department, and which ought to be cut off immediately, compelling them to transact their business through the telephone exchange of this city, instead of as now in the fire alarm office. This will enable our operators to give more attention to the city's business, consume less time in answering those outsiders' calls, and be the means of greater despatch in attending to the imperative and necessary calls of the department.

Engine House No. 16, on Woodland avenue, is in a fair way to

an early completion, and when fully equipped will be of great good to that locality in case of fire there. I would also suggest that a lot be purchased in the vicinity of Euclid and Willson avenues and a double house erected thereon. That a new turn-table truck be purchased and placed in Truck 2's house, and that the one now there be put in the new truck house when erected on such a lot.

During the past year there has been but one death in the department; this was caused by an accident to Cadet Timothy Graham, while irregularly trying an unpracticed drill in the "Pompier Ladder System."

I would respectfully call the attention of your Honorable Body to the Surgeon's report as to the health of the men of my command; to that of the Superintendent of Machinery, for the condition of the machinery, and to that of the Veterinary Surgeon, as to the health of the horses the past year.

The accompanying tables show a detailed record of alarms received during the year.

Before concluding my report, I desire to return my sincerest thanks to your Honorable Body for the hearty support and innumerable courtesies received at your hands the past year. My grateful acknowledgments are also due to my faithful and industrious Assistant Chiefs, to the Officers and members of the entire force for their devotion to duty, and to the several members of the Police Force who, at different fires, have assisted our men in various ways.

Respectfully submitted,

J. W. DICKINSON,

Chief C. F. D.

NUMBER OF ALARMS TURNED IN FROM EACH BOX
DURING 1888.

Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.
2	2	31	3	63	2	96	4	147	2	217	7	316	2	381	5
3	4	32	6	64	.....	97	1	148	.....	218	4	317	2	386	1
4	7	34	16	65	2	98	.....	149	2	228	3	318	3	387	2
5	9	35	5	67	1	121	6	151	.....	231	9	319	1	398	.....
6	1	36	1	68	10	123	3	152	.....	232	.....	321	6	412	.....
7	.....	37	3	69	2	124	6	153	.....	234	6	323	6	413	6
8	1	38	2	71	.....	125	7	154	6	235	1	324	1	414	4
9	3	39	3	72	1	125	11	155	1	236	2	325	2	416	1
10	1	41	.....	73	5	127	6	156	2	237	6	326	.....	418	2
11	.....	42	1	74	.....	128	1	157	3	238	.....	327	.....	421	6
12	11	43	2	75	2	129	4	162	4	241	2	341	3	423	8
13	1	45	8	76	1	131	.....	163	2	242	3	342	6	424	2
14	5	46	.....	78	3	132	14	164	5	243	3	343	2	425	1
15	1	47	1	79	2	133	.....	165	4	245	2	345	1	426	1
16	3	48	1	81	1	134	3	171	2	246	5	346	1	427	6
18	4	49	.....	82	4	135	5	172	1	247	.....	347	.....	428	4
19	5	51	.....	83	6	136	1	173	11	248	.....	351	3	431	.....
21	8	52	1	84	5	137	3	175	2	251	7	352	1	432	4
23	1	53	3	85	5	138	3	178	.....	252	2	353	.....	434	11
24	2	54	1	87	1	139	4	183	5	256	1	354	.....	435	.....
25	33	56	2	91	7	141	3	212	6	257	3	355	2	436	3
26	3	57	3	92	1	142	7	213	1	312	1	357	8	437	4
27	9	58	1	93	1	143	.....	214	3	313	.....	361	1	531	.....
28	6	61	1	94	9	145	6	215	1	314	1	362	1	.....	.....
29	1	62	2	95	5	146	1	216	2	315	.....	365	1	.....	.....

BOX ALARMS.

	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
Sunday	9	10	4	15	11	3	7	4	3	3	5	11	85
Monday	10	6	11	12	7	7	3	8	4	7	7	5	87
Tuesday	7	4	7	8	5	6	13	7	11	2	8	7	85
Wednesday	3	13	7	11	12	4	18	4	8	7	4	5	96
Thursday	9	8	7	13	13	5	5	3	7	6	6	8	91
Friday	2	5	9	10	6	11	4	5	7	5	6	5	75
Saturday	7	10	5	12	5	7	4	13	10	7	6	9	95
Total	47	56	50	81	59	44	54	44	50	37	42	50	614

STILL ALARMS.

Sunday	1	2	.....	2	.....	1	.....	.....	2	1	3	2	14
Monday	2	3	.....	1	.....	.....	.....	.....	1	.....	.....	1	8
Tuesday .....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	1	3
Wednesday	1	.....	.....	1	2	.....	1	1	.....	1	.....	.....	7
Thursday .....	.....	2	1	1	.....	.....	.....	1	.....	.....	3	1	9
Friday .....	.....	2	1	.....	.....	1	.....	4	3	3	.....	.....	14
Saturday	1	1	.....	1	.....	.....	1	1	.....	.....	.....	2	7
Total	5	10	2	3	2	3	2	7	6	6	6	7	62

	Box Alarms.			Still Alarms.			Working Fires.	Calls.	False Alarms.
	A. M.	P. M.	Total.	A. M.	P. M.	Total.			
January	17	30	47	1	4	5	15	1	1
February	18	38	56	2	8	10	26	2	1
March	20	30	50	.....	2	2	26	1	.....
April	35	46	81	3	3	6	33	3	2
May	19	40	59	.....	2	2	20	2	.....
June	14	30	44	1	2	3	17	2	.....
July	13	41	54	.....	2	2	24	1	.....
August	15	29	44	4	3	7	18	1	.....
September	22	28	50	.....	6	6	21	1	.....
October	15	22	37	3	3	6	15	.....	3
November	16	26	42	3	3	6	21	1	.....
December	17	33	50	3	4	7	11	2	1
Total	221	398	614	20	42	62	247	17	8

1888.	Alarms.	Stills.	Total.	False.	Calb.
January	47	5	52	1	1
February	56	10	66	1	2
March	50	2	52		1
April	81	6	87	2	3
May	59	2	61		2
June.....	44	3	47		2
July	54	2	56		1
August.....	44	7	51		1
September.....	50	6	56		1
October.....	37	6	43	3	
November.....	42	6	48		1
December.....	50	7	57	1	2
Total.....	614	62	676	8	17

Alarms turned in by

Citizen keys.....	256
Box keys.....	121
Police keys.....	54
Firemen keys.....	2
Telephone.....	105
Engine houses.....	69
Police stations.....	7

REPORT OF Superintendent of Machinery.

CLEVELAND, O., December 31, 1888.

James W. Dickinson, Chief:

SIR:—I have the honor to submit my annual report for the year ending December 31, 1888.

APPARATUS IN ACTIVE SERVICE.

Consists of fourteen steam fire engines, one fire boat, nine hose wagons, four hose carriages, one hose cart, five hook and ladder trucks, one aerial ladder, two two-wheeled chemical engines, five Chiefs' buggies, one Superintendent of Machinery wagon, one telegraph wagon, one gig, one two-wheeled truck for moving poles, one general delivery and thirteen exercise wagons.

APPARATUS IN RESERVE.

Three steamers in good order, one chemical engine in fair condition, one hook and ladder truck in bad order, two hose carts, one fair, one bad order, one supply wagon good, one hose carriage good.

EXTENSIVE REPAIRS.

Engine No. 4—General repairs, new wheels, new axle, painting.

Engine No. 5—General repairs, painting.

Engine No. 11—General repairs, new wheels, new smoke tubes, painting three horse poles.

Reserve No. B—General repairs, new suction, painting throughout.

Reserve No. C—General repairs, new boiler, new suction, new tire on wheels.

Fire Boat—General repairs to propeller wheel, four new steel blades.

H. & L. Truck 2—General repairs, Pompier service of ladders, belts and life-line.

H. & L. Truck 3—General repairs, Pompier service, three horse poles, painting.

Supply 2—General repairs, new wheels, new axles, painting.

Supply 4—General repairs, new wheels, new axles, painting.

Hose Carriage 13—General repairs and painting.

Telegraph wagon—General repairs and painting.

Exercise wagon No. 4—General repairs and painting.

ORDINARY REPAIRS TO

Steamers No. 1, 2, 3, 6, 7, 9, 10 and 14.

Hose wagons 1, 2, 3, 4, 5, 6 and 7.

Hose carriages 8, 11 and 12.

Hose cart 10.

Reserve hose cart.

Reserve hook and ladder truck.

Supply wagons 1, 2, 3 and 4.

Superintendent of Machinery wagon.

Telegraph wagon.

General delivery wagon.

Telegraph gig.

RESERVE APPARATUS, WHERE LOCATED.

Reserve A, at Fire Station 3.

Reserve B, at Fire Station 4.

Reserve C, at Fire Station 9.

Reserve Hook and Ladder Truck, at Fire Station 10.

Reserve Chemical, at Fire Station 10.

Reserve Hose Carriage, at Fire Station 9.

Reserve Hose Cart, at Fire Station 1.

The expenses for repairs the past year have been greater than the previous year owing to the rebuilding of two reserve Engines B and C; the latter receiving a new boiler and general repairs. Hook and Ladder Truck No. 2, general repairs and the Pompier Service. Hook and Ladder No. 3 received a thorough overhauling, painting, three-horse attachment and Pompier Service. Hook and Ladder No. 1, Engines No. 11 and 13, each received the three-horse attachment. Engine No. 11 was thoroughly rebuilt, new smoke tubes, steam cylinder and pump put in good order, set of new wheels and painted throughout.

There have been purchased and placed in service 1 new hose wagon, 2 new Chiefs' wagons, 6 portable extinguishers, 10 ladders, 4 three-horse poles.

The Fire Boat has swelled the expense account owing to accidents met with last winter in breaking ice; first the loss of propelling wheel near Upper Central Way bridge; boat had to be towed to her station. Had her raised out of water by the Lyman Strong derrick in order to put temporary wheel on until new steel wheel ordered was made, then boat was put in dry dock in order to put new blades on. Again in December it was necessary to put boat in dry dock to recalk bottom and put sheathing of iron $\frac{3}{8}$ inch thick on bottom to protect it from damage by ice cutting into the wood.

There were 1 new heater and fittings, valves and slip joints placed at Station 8, and attached to Engine.

The apparatus at the close of the year was in good working condition with few exceptions of a minor nature. The machinery of the Department has worked well when called into service during the year. There has been no serious accident to record. I am glad to say that the Engines, Hose Wagons, Hose Carriages and Cart, Hook and Ladder Trucks and Wagons are in good order for service when called upon.

I would recommend that some of the apparatus be painted; there are some badly in need of it.

The annexed table will show the cost of repairs in each month to each apparatus during the year.

In conclusion, I would return thanks to the Board of Fire Commissioners for their uniform courtesy toward me, and to the Chief for his valuable aid, co-operation and kindness received from him.

Respectfully submitted,

C. D. MURPHY,

Superintendent of Machinery.

REPORT OF FIRE DEPARTMENT.

STATEMENT, SHOWING COST OF REPAIRS ON EACH APPARATUS FOR EACH MONTH OF
THE YEAR ENDING DECEMBER 31, 1888.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Engine No. 1.....	\$ 3 55	\$.....	\$28 85	\$ 7 35	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 95	\$.....	\$ 68	\$ 41 48
" 2.....	1 90	4 26	22 91	1 65	.....	2 50	9 94	2 50	.....	.....	.....	6 16	51 82
" 3.....	30	1 09	.....	5 53	.....	69 35	1 05	1 35	2 50	.....	1 20	5 20	87 57
" 4.....	20 55	3 45	170 35	32 46	59 22	5 49	.....	3 35	.....	.....	.....	6 53	391 45
" 5.....	16 55	55 60	.....	.....	.....	.....	.....	2 63	.....	.....	14 70	.....	89 48
" 6.....	.....	.....	73	.....	26 85	53	.....	3 50	.....	1 19	23 90	2 58	61 28
" 7.....	.....	10	.....	2 53	29 47	.....	.....	3 50	.....	.....	.....	.....	35 00
" 8.....	2 31	.....	1 50	2 75	4 05	.....	53 11	15 00	3 00	.....	.....	1 15	82 87
" 9.....	.....	.....	.....	.....	31 12	1 00	3 10	1 50	.....	.....	.....	.....	40 72
" 10.....	.....	.....	.....	.....	.....	.....	.....	1 25	50	.....	29 66	.....	31 41
" 11.....	.....	.....	.....	1 75	27 10	162 30	103 34	67	201 35	2 00	.....	79 00	\$50 51
" 12.....	5 85	4 38	.....	16 25	.....	.....	.....	81 04	5 31	.....	.....	.....	111 82
" 13.....	8 90	.....	6 36	14 63	.....	.....	.....	85	8 33	.....	90	78 18	123 29
" 14.....	25	2 70	38 08	.....	.....	35	2 15	5 31	5 12	40	.....	.....	54 38
" 15.....	86 35	25	186 70	64 52	6 27	26 10	3 78	56 66	18 59	12 97	12 97	364 55	799 56
Reserve A.....	.....	.....	.....	1 75	45	83	.....	.....	.....	2 70	.....	.....	5 78
" B.....	6 42	14 20	192 69	333 70	64		42 65				70	3 40	551 75
" C.....								401 10	204 69	242 39	8 16	1 00	899 99

REPORT OF FIRE DEPARTMENT.

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STATEMENT, SHOWING COST OF REPAIRS.—Continued.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Chemical A.....	\$ 25	\$.....	\$ 7 00	\$.....	\$ 7 05	\$.....	\$.....	\$.....	\$.....	\$ 5 20	\$.....	\$ 1 50	\$ 21 00
" B.....	84 25	5 25	05	3 50	10	4 00	3 75	.....	.....	6 80	.....	1 85	11 00
Hose Wagon 1.....	.....	.....	.....	.....	2 75	.....	.....	.....	1 25	8 20	.....	75	98 55
" 2.....	.....	.....	.....	.....	.....	3 25	.....	2 90	5 50	.....	.....	.....	12 95
" 3.....	28 50	1 25	91 45	.....	12 80	.....	.....	.....	.....	.....	.....	.....	130 85
" 4.....	18 05	2 43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33 33
" 5.....	.....	.....	57 00	.....	.....	.....	.....	5 80	.....	5 15	.....	55	70 50
" 6.....	2 75	1 75	.....	52 50	.....	.....	.....	.....	.....	3 89	.....	.....	60 87
" 7.....	1 75	25	10 40	25 00	15 35	.....	.....	4 95	1 00	.....	40	.....	55 15
Hose Carriage 8.....	52 47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57 42
Hose Wagon 9.....	10 00	.....	.....	2 50	45	.....	15 80	.....	.....	.....	.....	.....	28 75
Hose Cart 10.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20 95	20 95
" 11.....	10 15	.....	.....	.....	.....	.....	10 42	2 00	.....	.....	.....	.....	22 57
Hose Carriage 12.....	.....	.....	9 95	.....	.....	8 50	.....	.....	.....	.....	2 10	.....	20 55
" 13.....	102 20	.....	.....	.....	.....	.....	.....	70	.....	4 73	.....	.....	107 63
Hose Wagon 14.....	.....	.....	.....	435 50	.....	.....	4 86	.....	.....	.....	.....	.....	441 30
Hook and Ladder Truck 1.....	1 40	19 91	113 00	4 66	3 44	8 88	8 05	5 81	2 51	90 00	1 51	5 20	259 37
" 2.....		73 73		20 00	4 65	40		80 11		62 01		1 50	245 40
" 3.....		1 48		11 20		5 27	391 10	68 85	90	7 50		31 29	517 59

REPORT OF FIRE DEPARTMENT.

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STATEMENT, SHOWING COST OF REPAIRS.—Continued.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Exercise Wagon 5.....	\$ 75	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 8 85	\$.....	\$.....	\$ 1 10	\$.....	\$.....	\$ 5 70
" 10.....									18 00				18 00
" 11.....						40							40
" 14.....			50										50
Heater No. 1.....					47								47
" No. 8.....								141 00					141 00
Total.....	\$481 96	\$217 17	\$993 68	\$924 14	\$275 63	\$468 85	\$761 26	\$964 53	\$724 46	\$810 93	\$138 41	\$805 21	\$ 7,207 47

DESCRIPTION OF FIRE ENGINES.

Engine Co. using.	Manufacturers' Name.	Style of			Size in Inches.			When placed in service.	Size.
		Frame.	Boiler.	Engine.	Steam cylinder	Stroke of Piston.	Pumps.		
Engine Co. No. 1....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1885	No. 1 Extra
" " 2....	Clapp & Jones Mfg. Co.....	Crane neck.....	Drop tube.....	Piston.....	9	8	5½	1885	" 1
" " 3....	Clapp & Jones Mfg. Co.....	Crane neck.....	Drop tube.....	Piston.....	8	7	5	1885	" 1
" " 4....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1890	" 1
" " 5....	Amoskeag Mfg. Co.....	Crane neck.....	Tubular.....	Piston.....	6½	8	4½	1875	" 2
" " 6....	Silaby Mfg. Co.....	Crane neck.....	Drop tube.....	Rotary.....	.....	.....	.....	1885	" 2
" " 7....	Silaby Mfg. Co.....	Crane neck.....	Drop tube.....	Rotary.....	.....	.....	.....	1884	" 3
" " 8....	Ahrens Mfg. Co.....	Straight.....	Coil.....	Piston.....	9	8	5½	1878	" 3
" " 9....	Manchester Locomotive Works..	Crane neck.....	Tubular.....	Piston.....	6½	8	4½	1879	" 2
" " 10....	Ahrens Mfg. Co.....	Straight.....	Coil.....	Piston.....	9	8	5	1877	" 3
" " 11....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1877	" 2
" " 12....	Silaby Mfg. Co.....	Crane neck.....	Drop tube.....	Rotary.....	.....	.....	.....	1877	" 3
" " 13....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1864	" 3
" " 14....	Silaby Mfg. Co.....	Crane neck.....	Drop tube.....	Rotary.....	.....	.....	.....	1885	" 2
" " 15....	Thos. Manning, Jr. & Co.....	.....	Scotch.....	Piston.....	.....	.....	.....	1886	Marine.
Reserve A.....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1873	No. 1
" B.....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1873	" 1
" C.....	Silaby Mfg. Co.....	Straight.....	Drop tube.....	Rotary.....	.....	.....	.....	1871	" 1

Report of D. L. Travis, M. D., Surgeon of Cleveland Fire
Department.

James Dickinson, Chief:

SIR :—I have again the honor to submit to your consideration a report of the medical services for one year, ending December 31, 1888.

**MEDICAL EXAMINATIONS FOR APPOINTMENTS AND
RETIREMENT.**

During year ending December 31, 1888.	For Cadet List.		For Pension List.		Aggregate.	
	No. Examined.	No. Rejected.	No. Examined.	No. Rejected.	No. Examined.	No. Rejected.
	70	20	5	0	75	20

Of the twenty (20) examined for cadet list and rejected, four (4) were short in height. Four (4) weight and chest measurement were out of proportion with height. Four (4) had functional disorder of heart, three of which were attributed to the use of tobacco. Organic heart disease caused the rejection of one (1); defective vision, two (2); lateral curvature of spine, one (1); inguinal hernia, one (1); femoral hernia, one (1); hereditary predisposition to rheumatism, one (1); acute rheumatism with palpitation, one (1).

You will see by referring to the foregoing tables that there has been a decided increase in the number of days lost by reason of sickness in the year 1888 over the number lost in 1887. In explanation I desire to call your attention to the fact that we have had an addition of twenty or more men to the number of the previous year.

During the Summer months of 1888 we had an unusual amount of stomach and intestinal troubles affecting adults, similar to the disorder of the stomach and bowels common to children during the Summer months.

In my annual report of 1887 I called your attention to the propriety of protecting firemen from the contagion of small pox, and as we now have that much dreaded disease in our midst, I would earnestly urge that the recommendations of last year touching this subject be complied with.

In conclusion, I desire to extend to you and your subordinates my sincere thanks for the kindness and courtesies extended in the performance of my official duties. The pleasant relations which I have experienced in my association with you will not be forgotten, and I shall strive to merit those feelings which should actuate all desirous of the welfare of this department.

Hoping our future relations may be equally gratifying, I am,

Yours very respectfully,

D. L. TRAVIS, M. D.

Veterinary's Annual Report.

CLEVELAND, O., December 31, 1888.

Jas. W. Dickinson, Chief:

SIR:—I have the honor to submit herewith my annual report for the year ending December 31, 1888, giving the number of calls made, the different diseases treated, and condition of horses.

DISEASES TREATED.

Kidney trouble.....	36 calls made.
Cracked heels.....	34 "
Colds	32 "
Colic.....	22 "
Lameness.....	22 "
Influenza	20 "
Bruised feet.....	18 "
Indigestion	16 "
Bruised leg.....	14 "
Cut head.....	11 "
Quitor	10 "
Nails in feet	9 "
Dentistry	8 "
Sore feet.....	8 "
Lunged ankles.....	6 "
Bruised knees.....	5 "
Chill.....	5 "
Strained tendons.....	5 "

REPORT OF FIRE DEPARTMENT.

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Overworked	4 calls made.
Lampus out.....	4 "
Pneumonia	3 "
Cramping of muscles	3 "
Sore leg.....	2 "
Strained hind leg.....	2 "
Enlarged gland.....	1 "
Lame back	1 "
Dropsy	2 "
Bruised eye.....	1 "
Worms	1 "
Tumor.....	1 "
Lame Shoulder	1 "
Bruised head.....	1 "
Bruised by falling	1 "
Lame tendon.....	1 "
Strained back	1 "
Cracked foot.....	1 "
Total.....	312 "

In addition to the above calls, I have made seven general calls with Commissioners during the past year.

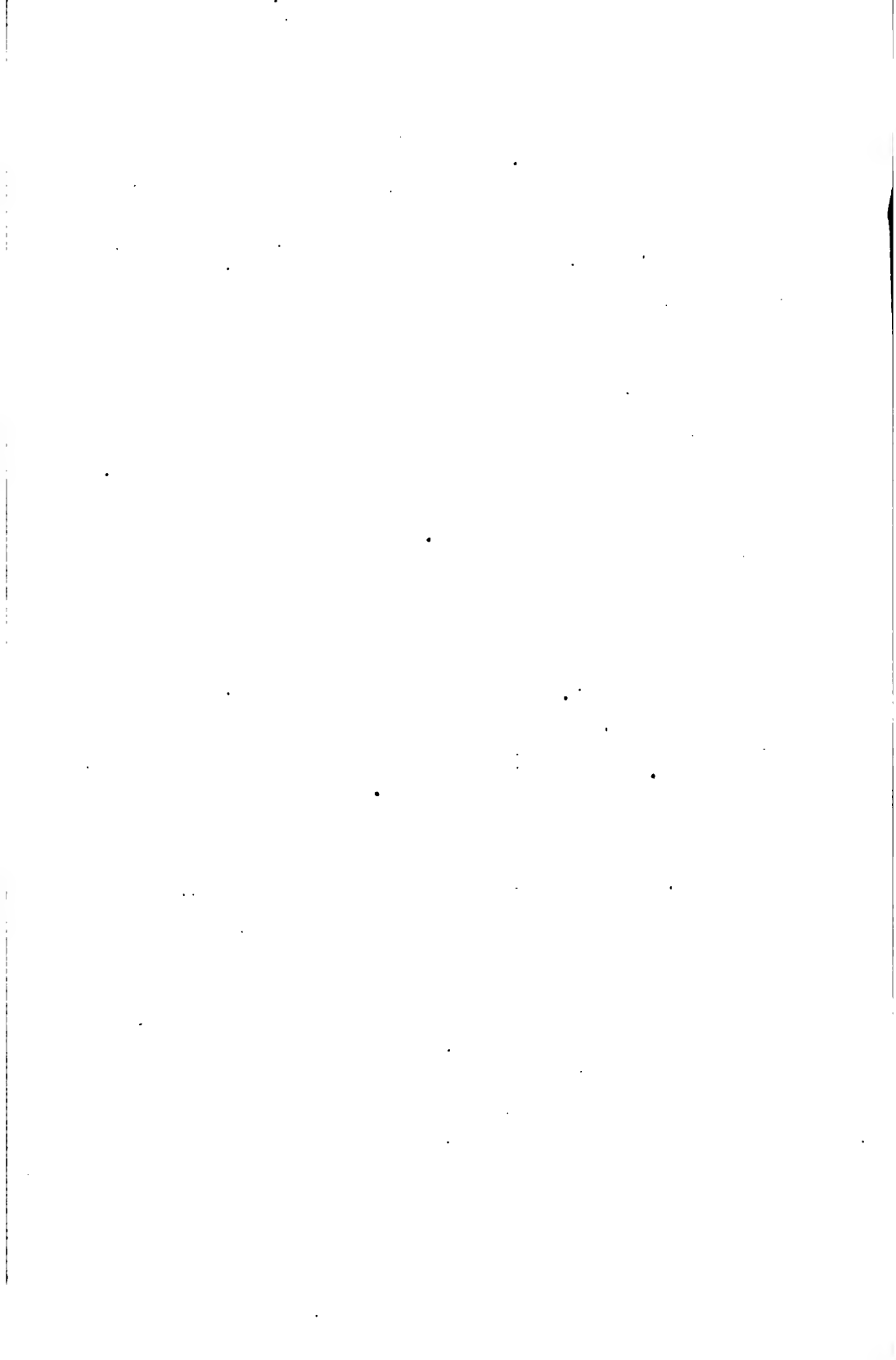
Number of horses in the department.....	89
" " purchased during the year	16
" " sold during the year.....	12
" " out of service	7
" " lost by sickness.....	1

Horse 93 died August 1, 1888, with inflammation of the bowels, while out of service at No. Fire Station. The horses in the department, with but few exceptions, are a fine class of horses and in good condition.

Respectfully,

A. H. SANBORN,

Veterinary Surgeon.



Report of Water Works Departm't.

Trustees' Report.

To the Honorable Common Council of the City of Cleveland :

GENTLEMEN:—The thirty-third annual report of the Trustees of the Water Works, with the reports of the Secretary and the Superintendent and Engineer, is herewith respectfully submitted.

The recommendation in our last annual report that the land occupied by the Franklin Street reservoir, now a useless expense to the city, be sold, or if not sold otherwise disposed of, is again renewed.

The expenditures of the department for main and distributing pipes, new tunnel, new engines, etc., have been unprecedentedly large, in fact the entire receipts for water were expended on account of the purposes named, and in the case of distributing pipes many petitions for pipe were denied for the reason that funds were not available to meet the expense.

As will be seen by the accompanying report of the Superintendent and Engineer, fair progress has been made in the work of building the new tunnel, notwithstanding the frequent delays caused by irruptions of water, gas and quick sand. We believe that with proper energy on the part of the contractors it can be completed by the time allowed in the contract, that is by April, 1890.

The rapid increase in the extension of distributing pipes makes it necessary to lay another thirty-six inch main pipe from the pumping

works to the eastern part of the city, north of Euclid Avenue. We intend, during the coming year, to lay that portion of the line that extends from the pumping works to the river, opposite St. Clair St. The suggestion that a tunnel be built under the river in which two mains may be carried is worthy of consideration, and we have directed that plans and estimates of the cost of the work be prepared.

The estimated expenditures for the coming year, as will be seen, leaves only sufficient funds in the treasury, at the end of the year, to pay the operating expenses of the department until April following.

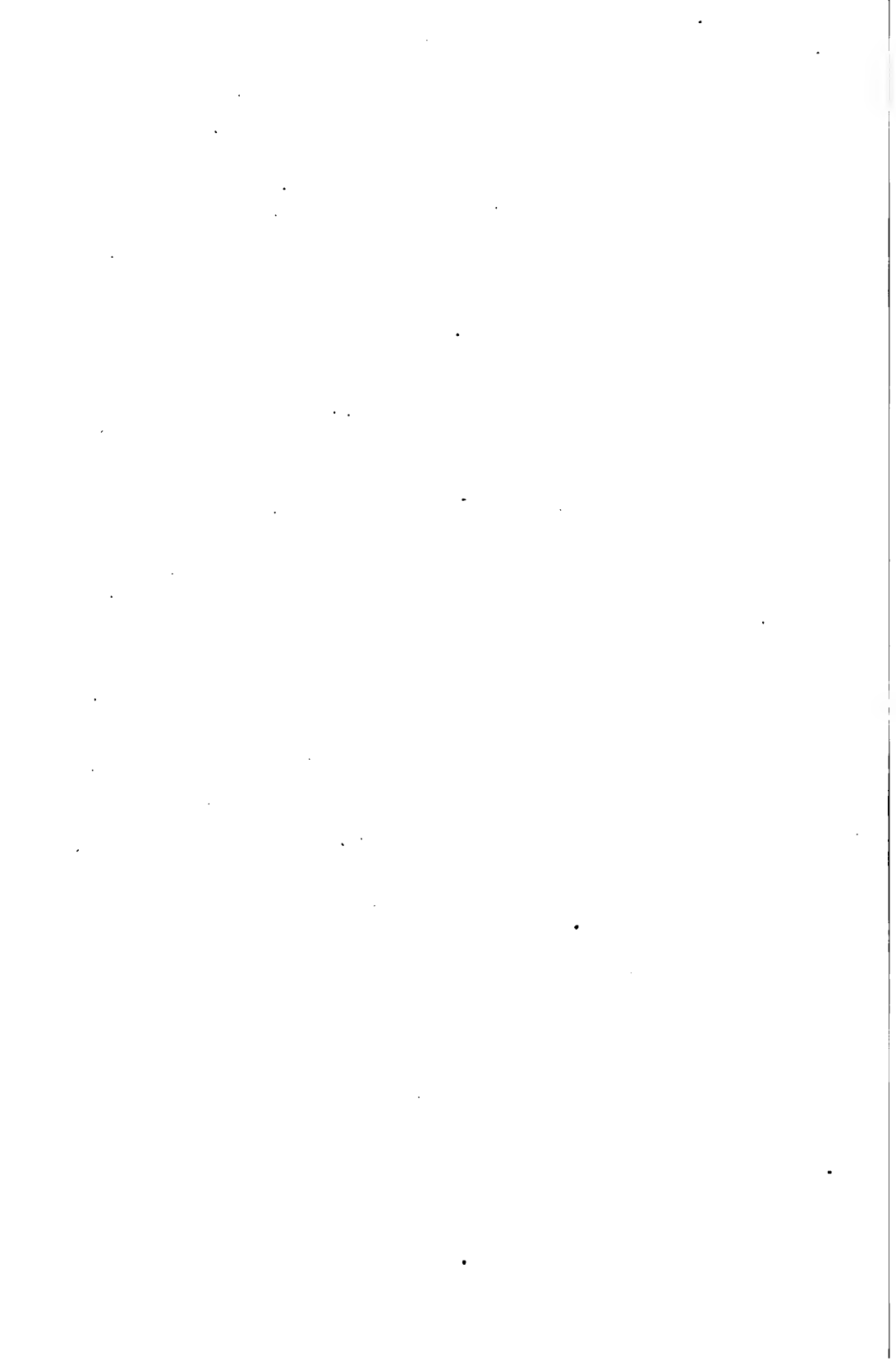
A greater length of main pipe would be desirable if the money at our command would permit.

GEO. S. PAINE,

CHAS. H. PRITCHARD,

Trustees of Water Works.

Secretary's Report.



Secretary's Report.

OFFICE SECRETARY OF WATER WORKS, }
CLEVELAND, O., January 15, 1889. }

To the Honorable Board of Trustees of Water Works:

GENTLEMEN:—The thirty-third annual report of the financial condition of the water department for the year ending December 31, 1888, is herewith respectfully submitted.

RECEIPTS.

For water measured	\$ 153,725 08	
" from assessments.....	244,705 53	
" from other sources.....	6,940 17	\$105,370 78
Less returned water rent.....		3,596 38
Water rent from all sources.....		401,775 40
For labor and material	6,658 82	6,658 82
From H. R. McIntosh, advanced to lay pipe.....	498 70	
" Julia D. Gilbert and Mary D. Davis, advanced to lay pipe.....	609 40	
" Margaret Althen, advanced to lay pipe.....	262 12	
" W. D. Sayles, " " "	1,086 43	
" Miller & Spangler, " " "	1,630 89	
" W. J. Crawford & Co., " " "	2,500 00	
" M. & M. Halle, " " "	623 52	7,211 06
On account of general repairs.....	51 66	
" " water meters.....	378 99	
" " general expense.....	16 31	
" " high service expense.....	20 00	
" " engine house expense....	540 00	1,006 96
For 3,145 connections to water pipe @ \$5 each.....	15,725 00	
For stop cock boxes and connections reissued....	426 95	16,151 96
Cash balance January 1, 1888		66,420 22
		\$ 499,224 41

DISBURSEMENTS.

For ferrules, stop cocks, boxes and tapping.....	\$ 13,698 69	
For balance of ferrule account transferred to expense.....	2,453 26	\$16,151 95
On account of construction	914 11	
" " pipe extension	209,724 09	
" " Fairmount reservoir	6,139 15	
" " lake tunnel.....	70,472 76	
" " new engines and boilers.....	38,166 73	
" " water meters, etc.....	12,355 89	337,771 73
" " general repairs.....	8,032 32	
" " general expenses.....	33,351 57	
" " main pumping station expense.....	47,416 79	
" " main pumping station repairs.....	1,992 54	
" " Fairmount pumping station.....	5,253 87	96,047 09
Cash in office January 1, 1889	1,683 57	
Cash in City Treasury January 1, 1889.....	47,570 07	49,253 64
		\$ 499,224 11

The substance of the foregoing statement of receipts and disbursements is contained in the following :

Received for water	\$ 401,775 40	
Received from other sources.....	13,869 88	
Cash on hand January 1, 1888.....	66,420 22	\$182,065 50
Expended for Water Works construction.....	337,392 74	
" operating expenses.....	95,419 12	432,811 86
Cash on hand subject to draft January 1, 1889.....		49,253 64
		\$ 482,065 50

The revenue for the current year estimated as follows:

Cash on hand January 1, 1889.....	\$ 49,253 64
From water rents.....	420,000 00
Total revenue.....	469,253 64
Operating expenses.....	100,000 00
Available for other purposes	369,253 64

I would respectfully refer to the report of the Superintendent and Engineer for estimates on proposed extensions, and for balances due on unfinished contracts :

LEDGER BALANCES DECEMBER 31, 1888.

DR.		CR.	
Cash	\$ 1,683 57	Water rent.....	\$ 2,884,150 21
City Treasurer.....	47,570 07	City of Cleveland	48,071 26
Interest	215,800 64	Bonds outstanding.....	1,775,000 00
Construction	4,130,304 50	Bonds redeemed	925,000 00
Fairmount reservoir.....	398,830 41	Sundry creditors.....	7,211 06
Lake tunnel	72,002 76		
New engines and boilers....	95,443 91		
Water meters.....	77,796 67		
Total	\$ 5,639,432 53	Total.....	\$ 5,639,432 53

The account in the Ledger "Sundry Creditors" is for cash advanced by various persons named in the first page of this report, to lay water pipe in certain unimproved streets, under agreements that when the water rents from premises thereon shall reach a sum, which shall represent an annual interest of eight per cent. on the cost of the pipe therein, the money standing to their credit shall be refunded.

The following table shows the revenue from water rents, the operating expenses and repairs, and the balance to the credit of water rent after deducting such expenses, from the introduction of lake water into the city until the present time :

Years.	Gross Receipts.	Expenses.	Repairs.	Net Water Rent.
1856 to 1876	\$ 1,127,788 02	\$ 426,564 16	\$ 98,656 37	\$ 602,567 49
1877	152,794 68	50,571 46	20,673 36	81,549 86
1878	160,125 70	47,183 44	22,453 91	90,488 35
1879	182,173 33	44,616 59	11,182 61	126,374 13
1880	202,377 92	47,618 76	8,296 13	146,463 03
1881	233,981 71	56,430 19	8,586 07	168,965 45
1882	248,879 06	57,857 47	7,835 56	183,186 03
1883	274,614 15	61,617 58	11,583 24	201,403 33
1884	296,392 60	66,196 41	9,470 48	220,725 71
1885	317,661 06	65,150 73	55,498 35	197,011 98
1886	353,191 85	77,582 32	8,034 44	267,575 09
1887	392,376 49	82,354 76	7,561 35	302,460 38
1888	401,775 40	85,445 92	9,973 20	306,356 28
Chd. to Repairs on acc't of depreciation in value of meters			10,976 90	10,976 90
Total.....	\$ 4,344,131 97	\$ 1,169,189 79	\$ 290,791 97	\$ 2,884,150 21

Reservoir and grounds, six acres, Franklin Ave.....	\$	84,853	13
“ “ twenty acres Fairmount St.....		398,830	41
“ “ eight acres, Kinsman St.....		143,916	96
Engine house grounds, four acres, Old River St.....		54,356	28
Two engine and boiler houses, Old River St.....		251,239	83
Four compound duplex pumping engines, boilers, etc., combined daily pumping capacity 40,000,000 gallons.....		278,309	29
Two compound duplex pumping engines and boilers; engines unfinished; daily pumping capacity 30,000,000 gallons.....		95,443	91
Lake crib, superstructure, tunnel and branches, one mile 3,940 feet long, 5 feet in diameter; daily delivering capacity 40,000,000 gallons.....		510,025	46
21 miles 1999 ft. mains,	{	Constituting the pipe system.	3,200,333
235 miles 1240 ft. distributing pipes,			
2,894 fire hydrants,			
1,544 water meters and brick vaults.....		77,796	67
High service engine house and grounds, 1½ acres, Fairmount St; Engineer's residence and Fireman's residence; and one pair Cornish engines, daily pumping capacity 6,000,000 gallons.....		204,769	19
New tunnel, unfinished, cost to date.....		72,002	76
Total cost to date.....		5,371,878	25

A detailed statement of receipts for work and material, etc., as shown on voucher register of accounts receivable :

Geo. S. Paine, 4 in. connection in Superior.....	\$ 80 57
John Hay, connection in Euclid Ave	160 16
Hotchkiss, Upson & Co., lowering hydrant.....	22 18
Smith & Connors, enlarging connection.....	96 97
Gorham & Sargent, 3 in. connection, Madison Ave.....	83 21
Root & McBride Bros., plugging five connections	7 00
Woods, Jenks & Co., two 4 in. connections, Carter St.....	130 88
N. Y., P. & O. R. R., 4 in. connection, Sawyer St.....	63 54
Burrows & Bosworth, 2 in. connection, South Dunham.....	28 12
Dewstoe & Schneider, 2 in. connection, Euclid Ave.....	22 92
A. F. & H. Strater, plugging connection.....	2 48
Woods, Jenks & Co., two 4 in. connections.....	120 63
Valley Railway, 4 in. connection, Lime St.....	63 57
Standard Oil Co., 4 in. connection in Tod St	27 02
York Water Motor Co., 4 in. connection in East River St.....	72 84
Upson & Walton, one 4 in. Crown meter.....	306 14
Dewstoe & Schneider, 4 in. connection, Seneca St.....	84 98
A. A. Parker, 4 in. connection, Champlain.....	70 51
R. O. White, one 4 in. cylinder valve box.....	4 05
Paine & Henderson, for a 2 in. connection.....	22 72
C. F. Brandt, 4 in. connection, Ontario St.....	98 89
Ohio Baking Co., 4 in. connection, Superior St.....	74 43
Mrs. J. Bacher, 3 in. connection, Church.....	36 98
Cleve. Milling Co., enlarging connection, Merwin St.....	74 09
F. Muhlhauser, 4 in. connection, Pleasant St	96 71
Smith & Connors, 2 in. connection, Seneca St.....	24 83
Wm. Medlin, 3 in. connection, Vega Ave.....	52 19
Stoppel's Sons, connection, Commercial St.....	103 16
Cleveland Cyclorama Co., 4 in. connection, Erie.....	57 81

Mary E. Monroe, connection, Euclid Ave.....	\$ 110 67
F. A. Wadsworth, testing meter.....	75
H. P. McIntosh, Agt., account of pipe laid, Hazzard St.....	498 70
B. Schreiner, connection in Carroll St.....	22 06
W. H. Cleveland, enlarging connection.....	16 71
J. O. Donnell, scrap iron	203 25
J. O. Donnell, old hose	1 00
J. W. Nixon, connection in Frankfort St.....	51 87
Mrs. Gilbert and Davis, pipe in Wellesley Place	609 40
Hollenden House, connection, Bond St.....	67 29
Ohio Barb Fence Co., connection, Case Ave.....	59 61
A. F. & H. Strater, scrap solder	25 20
W. H. Brett, one $\frac{3}{4}$ water meter.....	15 00
F. A. Wadsworth, connection, Old River St.....	38 69
Sturtevant Lumber Co., connection, Central Way.....	89 52
J. C. Ellis, connection, Frankfort St.....	54 41
I. N. Topliff Manufacturing Co., enlarging connection.....	53 25
Meriam & Morgan, connection in Hunter St.....	15 92
Globe Iron Works Co., enlarging connection.....	231 55
E. R. Hull & Co., Connection in Ontario.....	103 01
M. & M. Halle, pipe in Wilmar.....	623 52
F. A. Wadsworth, 6 in. elbow.....	3 54
Standard Tool Co., connection, Garden St.....	26 38
Union Rolling Mill Co., connection, Aetna St.....	44 63
Jos. Turner Manufacturing Co., connection, Broadway.....	236 68
A. A. Parker, valve box.....	4 74
American Wire Co., connection in Lake St.....	124 23
Odonnell & Barrett, connection in Ontario.....	86 77
Bert Armour, one $\frac{3}{4}$ water meter.....	15 10
A. A. Parker, valve box.....	4 05
Smith & Connors, fire hydrant.....	39 10
East Cleveland Railroad, connection, Second Ave.....	95 38
Mrs. Margaret Althen, pipe in Guslav Ct.....	262 12
Smith & Connors, connection, Perry St.....	17 97
Wm. S. Barker, connection, Willson Ave.....	69 55
Desnoyers Bros., connection, Hazen.....	18 61
Geo. H. Foote, connection, Bank St.....	92 07
E. H. Jones & Co., testing meter.....	3 00
W. D. Sayles, pipe in Sayles Ave.....	1,086 43
H. J. Luff, connection, Madison Ave.....	75 70

REPORT OF WATER WORKS DEPARTMENT.

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W. L. Miller & Spangler, pipe in Ingleside Ave.....	\$ 1,398 87
W. L. Miller & Spangler, pipe in Gary St.....	232 02
H. B. Payne, labor watching water pipe.....	118 64
Trunk & Schmidt, four $\frac{1}{8}$ bends.....	1 86
John Gossline, error in time roll.....	6 50
Frank Tapp, error in time roll.....	6 50
John Schneider, error in time roll.....	4 00
J. Newman, reducer and sleeve..	4 05
Smith & Connors, $1\frac{1}{2}$ in. connection in Ohio St.....	8 20
John W. Nixon, paving.....	1 54
M. A. Bradley, dockage.....	40 00
Pickands, Mather & Co., lease of dock, year ending December 31, 1888.....	500 00
Ohio Iron and Metal Co., 16 tons 1140 pounds scrap.....	249 38
Cash, one water meter.....	27 00
J. Forman, stone from Woodland Hills Ave.....	15 00
Valentine Sauer, stone from Woodland Hills Ave.....	15 00
Cash, for hay from Fairmount reservoir.....	6 00
W. E. Miller, Agt., pipe in Hurlburt St.....	600 00
Ohio Iron and Metal Co., 134 tons 667 pounds scrap.....	2,021 72
W. J. Crawford, advanced to lay water pipes.....	2,500 00
E. H. Jones & Co., work on meter.....	7 50
Findlay Rolling Mill, hydrant.....	15 00
James Brand, hay from Fairmount.....	4 00
Fraw & McArthur, box cover.....	66
Cash, hay from high service reservoir.....	10 00
Cash, lead skimmings.....	2 15
	\$ 15,081 60
Less permits accounted for in Ferrule account.....	166 00
	\$ 14,915 60

The manner of keeping and collecting accounts for water from consumers where premises are metered is necessarily a complicated one, and not on the whole as simple as one would wish. An advance is required of each consumer to pay for the probable use of water during the ensuing six months, and is increased or decreased, as the use of the previous six months may indicate, which use is so irregular that often the advance may not come within gun-shot of the actual amount.

A quarterly payment for the three months preceding the first of April, July, October and December respectively, with the authority of the Legislature to make unpaid bills a lien upon the property, would, in my opinion, be more satisfactory. The only obstacle in the way is, that no receipts for water measured would be had till after the first of July, and the income of the entire year would be less than previous years, although the bills due on the first of January, 1889, would pay all claims of the department until April first. I respectfully submit the question for your consideration.

The water connections, numbering 22,100 January 1, 1887, have increased to number 27,538, January 1, 1889, and represent very nearly the persons with whom business is transacted twice a year—an increase in the past two years of 5,438, or nearly twenty-five per cent.

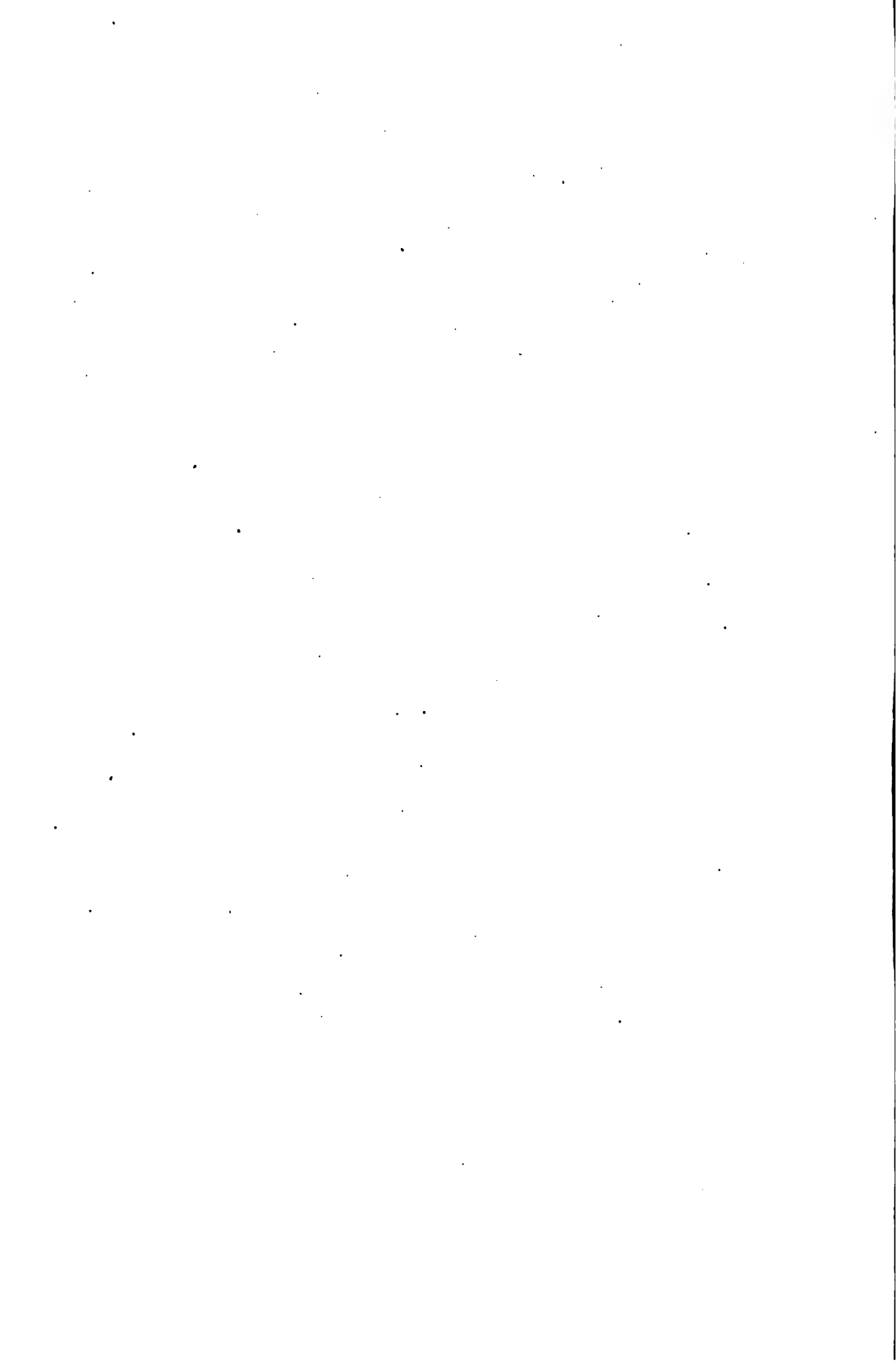
The additional work consequent upon this increase in business has been done by the same clerical force as formerly.

In conclusion, permit me to express my sense of obligation to my assistants in office, one and all, for the faithfulness and ability with which they have performed the duties assigned them, and to your honorable board for the confidence reposed in and for the gentlemanly courtesy which at all times you have extended me. All of which is respectfully submitted.

W. A. MADISON,

Secretary.

Report of Superintendent ~~AND~~ Engineer.



REPORT OF THE Superintendent and Engineer.

To the Board of Trustees of Water Works:

GENTLEMEN:—I herewith present the thirty-third annual report upon the condition of the Water Works, with a statement of the character and amount of work done in extending and enlarging the different parts thereof, for the year ending December 31, 1888.

LAKE CRIB.

During the Summer new sheathing to replace some that had been torn away by ice, near the water line, last winter, was placed on the north and northwest sides of the Crib, a part of which work required the services of a diver. A new covering of two inch deck plank, with joints white leaded and calked, was put on three of the five sides of the roof, making that portion of the structure water tight in any storm. The contractors for the new tunnel found it necessary to remove some of the dwelling rooms of the keeper, as provided for in their contract, all of which they are to restore upon the completion of their work.

The cost of the repairs mentioned will be found in the appended abstract of expenditures.

TUNNEL.

There has been no interruption of the supply of water through the tunnel during the year. The low stage of water in the lake during the Autumn and early Winter has increased the suction lift in the pumps, but the supply has been more than sufficient for the demand thus far. A period of maximum water level prevailed in the great lakes during the year 1886, as shown on charts, covering a period of twenty-eight years, published in *Engineering News*, in October last, by Mr. Charles Crossman, of Milwaukee. These charts show a gradual, but not uniform, rise to the maximum and a more rapid decline to the minimum period. We may, therefore, anticipate a still further decline in the lake level, until the minimum is reached. The extreme fluctuation between high and low water during the term of years covered by the charts exceeded four and a half feet, not taking into consideration the temporary rise or fall due to wind.

The rapid increase in the number of water takers and consequent increase in the consumption of water shows that the building of a new tunnel was not commenced any too soon, when the possibility of a still lower stage of water in the lake is before us.

NEW TUNNEL.

Proposals for this work were received March 24th from the following persons and firms, and at the prices named :

Stanley Bros. & Co., of Cleveland	\$280,480 00
Rieley & Kuntz, of Cleveland	372,650 00
McReynolds & Gawne, of Cleveland	223,450 00
J. W. Scott, of Cleveland	257,023 00
Andrew Doll, of Cleveland	230,147 00
L. P. & J. A. Smith, of Cleveland	274,258 00
Alexander Campbell, of Cleveland	255,570 00
J. S. Casement & Co., of Painesville and Cleveland . .	204,301 16
The estimated cost of work let was	220,000 00

The price in each case includes two working shafts, two gate shafts and one inlet shaft in the lake crib. The bids varied in price per lineal foot of tunnel from \$18 to \$35.

The contract was awarded to J. S. Casement & Co., the lowest bidders.

Work was commenced in the shaft, near the lake shore, on the 5th, and in the one at the Division street Pumping Station on the 25th of April. On the 6th day of June the first brick was laid in the latter shaft by the President of your Board, and the work progressed without interruption until eight hundred and ten feet of tunnel towards the lake shore had been completed, when work in that direction was discontinued.

During the progress of this work the southerly gate shaft and the branch tunnel leading from it to the main working shaft was being built, and the two shafts were connected about the same time work ceased in the tunnel being built northward.

When the excavation in the lake shore shaft had been carried to near its full depth, and preparations were being made to commence the masonry, gas, water and quicksand suddenly broke in and drove the workmen out. The water brought with it large quantities of quicksand which soon filled the shaft to within forty feet of the top. About this time the embankment of the Lake Shore Railway began to settle, and further operations in that shaft were stopped. A tube for testing the character of the ground at a point about one hundred and fifty feet west of this shaft was put down to the full depth of the excavation required, and the clay found to be excellent in quality. The cast iron cylinders were then taken out of the first shaft and a new one started at this point, this was soon completed and the tunnel started in both directions from the bottom, working southerly; the clay has been of good quality and the work has been carried on without interruption.

The tunnel north from the shaft was driven for a distance of one hundred and three feet, to a point just beneath the inner slope of the railway embankment, when another irruption of water, gas and quicksand occurred; every effort was made to push the work beyond this point, but the quantity of quicksand flowing in caused further settlement of the railway embankment; at the same time vertical cracks appeared in the masonry at two points, back of the face, showing that

the finished work was being undermined. A bulkhead of timber, backed with four feet of masonry was then placed at the outer end to prevent the further inflow of sand. It was then decided to abandon so much of this section as would be necessary to permit the adoption of a new line, that by easy curves would carry the new tunnel parallel to the old one and about thirty feet west of it. The divergence to the westward was made for the reason that the seam through which the sand flowed dipped to the west in crossing the excavation, at such an angle that the new line would cross above it.

The new line was started at a point fifteen feet from the center of the shaft, by a curve of fifty feet radius and a chord of thirty-three feet and continued thence on a tangent to the beginning of the second curve similar to the first, but turning in an opposite direction that brought the line nearly parallel to the old one. By this divergence eighty-eight feet of finished tunnel was lost. When work on the new line had been completed to a distance of one hundred and eighty feet from the shaft, water, gas and a small quantity of sand appeared through a seam in the clay. For a time the quantity of water was large and as a precautionary measure a temporary bulkhead was built across the end, after which the abandoned tunnel was opened by a small cross drift; this was done with a belief that the two streams flowed from a common source, and that by giving either of them a free discharge the other would be reduced in volume so that the work could be carried on with less difficulty; the attempt, however, failed to show any connection between the two streams. While this work was being done it was noticed that the stream flowing from the pipe passing through the temporary bulkhead was gradually growing less, and that the flow of sand had ceased. The bulkhead was then removed and a two inch pipe built into the wall a few feet back of the end, through which the small stream of water then flowing passed, leaving the clay in the face comparatively dry. Work was then carried on by short shifts until the bad ground was passed. Water still continues to flow from the pipe, but the quantity is greatly diminished. The clay underlying the railway embankment was tough and of good quality, but badly broken by irregular seams, this is doubtless

due to the concussion caused by heavy trains passing overhead, as the same quality of clay on either side of the embankment is free from seams.

The total length of tunnel built to the 31st day of December was twenty-one hundred and eighty-nine feet, and three of the shafts had been completed.

Work at the inlet shaft in the lake crib has not progressed in a satisfactory manner.

The joints between the sections of the shaft were carelessly made, allowing water to leak through and causing delay in excavating; and when the excavation had been carried to its full depth the work of lining the shaft with masonry was delayed until, by exposure to air, the clay softened and masses of it entered the bottom of the cylinders. The castings have had to be lowered to a greater depth than would have been necessary had the work been pushed with the same vigor, and had received the same attention from the contractors that the other portions of their work did.

BUILDINGS.

The different buildings at both Pumping Stations are in good repair. The only outlay that will be needed on either of them, in the near future, will be the painting of the iron roof of the south engine and boiler house. The only expenditure on either of the buildings was for cutting openings between the main engine room and the wings on either side in the north building on Division street.

MACHINERY AND BOILERS.

The accompanying report of the Engineer of the Division street Pumping Station gives a detailed statement of the condition of the machinery and boilers under his care, making it unnecessary for me to add thereto.

I heartily indorse his recommendation to place machinery and tools in the work shop with which to make ordinary repairs or such as can be made by the regular employees of the works. I know that

both time and money could often be saved if such conveniences were provided. The forge placed in the shop a few years ago has been a constant convenience and has saved its cost many times.

The Cornish engines and boilers at the high service works have not required the expenditure of one dollar for repairs during the year.

FRANKLIN AVENUE RESERVOIR.

This property remains in the same condition as at the date of my last report. That portion of the lot fronting on Duane street is still being used as a pipe yard.

FAIRMOUNT RESERVOIR.

This reservoir is now in full use, the leaks in the north basin, so far as known, having been stopped; the work was done by workmen employed by this department and the cost charged to the contractors.

HIGH SERVICE RESERVOIR.

No work has been done on this reservoir other than the ordinary care bestowed by the keeper. The banks remain in the same condition they were in one year ago. The lining remains unchanged. The outer slopes were seeded and dressed with compost and bone dust. The depth of water has ranged between fifteen and eighteen feet.

MAIN PIPES.

The length of 30-inch main pipe laid in Willson avenue and McBride street, as recommended in my report for last year, was 8,375 feet. The gap remaining to be laid to connect the east and west sections of the line, across the river valley, is about 10,000 feet, and when laid will add another feeder to the 36-inch main leading to Fairmount reservoir. The pressure in the vicinity of Broadway, where this pipe crosses, has been increased about five pounds, allowing water to raise one story higher than it formerly did.

The line between the two sections cannot be laid until the hills leading from the flats up to the higher levels are graded. I would therefore suggest that a conference be had with the proper authorities

to urge early action to accomplish this work, the importance of which would justify the in-paying a portion of the cost. To connect the two Knowles engines with the present 30-inch mains 50 feet of 36-inch pipe was laid, provision being made for the extension of lines of the same size from each of these in the near future.

The old 24-inch pipe leading south from the north building to the 36-inch main in Kentucky street was taken up and relaid for a distance of 164 feet with heavier pipe.

One of the lines of 36-inch pipe, leading from the easterly Knowles engine to the northerly section of the eastern part of the city, should be commenced at once and be laid as fast as the financial condition of the department will permit, at least that part of it leading from the pumping works to the point where it will cross the river should be laid the coming season.

In crossing the river with this new main I would suggest for your consideration the plan of carrying the pipe through a tunnel from the intersection of Washington and Old River streets to St. Clair street, crossing under private property and the river, a distance of about 450 feet between the two shafts. The tunnel should be large enough to carry at least two three foot pipes; the size necessary for this purpose would have roof space enough to carry all the wires and cables used by the city and different companies. If the clay under the river be of suitable quality the work could be done at a cost that it is believed would justify the undertaking.

DISTRIBUTING PIPE.

The length of pipe laid for street distribution has been greater than for any year in the history of the work. The total length of all sizes added in the past year as shown in the accompanying schedule is as follows:

Low Service System	19 miles,	4,674 feet.
High Service System	4 miles,	568 feet.
Both Systems	23 miles,	5,242 feet.

The total of all sizes in both systems is as follows:

Low Service	256 miles,	3,239 feet.
High Service	19 miles,	476 feet.
Total	275 miles,	3,715 feet.
Pipe relaid and lowered		2,140 feet.
Pipe lowered	3 miles,	5,225 feet.

The number of new buildings being erected in the outlying districts indicates a growth of the city that will demand the laying of a larger quantity of pipe than was laid last year; to meet such demand and carry on other work of equal, or even greater importance, will require all the anticipated income for the present year.

STOP GATES.

The number of stop gates added to the pipe system was 597; of these 494 are in the low service and 103 in the high service system; of the total number 7 are in main pipe lines. The number of all sizes now in use in both systems is 5,591. For size, number of each size and location, see accompanying schedule.

FIRE HYDRANTS.

During the year 377 fire hydrants were placed in the new pipe laid; 310 of these are in the low service, and 67 in the high service.

The total number now in use is 2,894.

For detail as to location and size, see appended schedule.

SERVICE PIPES.

Size.	Made previous to 1888.	Made in 1888.	Total.
¼ in.	248	221	469
⅝ "	22,856	2,827	25,683
¾ "	673	27	700
1 "	80	2	82
1¼ "	35	9	44
1½ "	37	3	40
2 "	193	12	205
2½ "	3	0	3
3 "	99	6	105
4 "	161	15	176
6 "	5	1	6
8 "	3	0	3
Totals.....	24,393	3,123	27,516

Turned off for non-payment of rent or other causes.....	733
Not extended beyond curb line.....	1,299
Abandoned and plugged.....	7
Not in use.....	2,039
In use December 31st, 1888.....	25,477
In use December 31st, 1887.....	22,658
Increase.....	2,819

LEAKS.

The annexed table shows the number of leaks for the year, the character of the same and the size of pipe :

LEAKS IN 1888.

Months.	Size of main pipe.	In Pipe.		In Valves.			Fire hydrants.	Sprinklers.	In Service Pipes.			Total.
		Joints.	Broken pipe.	Stuffing box.	Joints.	Broken screws.			At ferrules.	At stop cock.	In lead pipe.	
January.	8 in.	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	10 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in Jan.....	.....	2	1	1	.....	.....	.....	.....	3	2	1	10
Total in Feb	6 in.	2	.....	1	.....	.....	.....	1	4	3	2	13
March.	4 in.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	6 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in March.	.....	2	.....	.....	.....	.....	.....	.....	.....	1	2	5
April.	3 in.	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
	4 "	1	.....	2	2	.....	.....	.....	.....	.....	.....	.....
	6 "	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....
	8 "	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	10 "	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	16 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	36 "	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in April...	.....	12	1	5	3	.....	.....	.....	4	.....	5	30
May.	4 in.	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
	6 "	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
	8 "	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	10 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in May....	.....	4	.....	2	2	.....	.....	2	.....	1	2	13

LEAKS IN 1888.—*Continued.*

Months.	Size of main pipe.	In Pipe.		In Valves.			Fire hydrants.	Sprinklers.	In Service Pipes.			Total.
		Joints.	Broken pipe.	Stuffing box.	Joints.	Broken screws.			At ferrules.	At stop cock.	In lead pipe.	
June.	3 in.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	6 "	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	8 "	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	12 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in June....	.....	4	.....	1	.....	1	.....	.....	.....	1	1	8
July.	4 in.	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....
	8 "	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	16 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in July ...	.....	2	1	.....	2	1	.....	.....	6	.....	.....	12
August.	4 in.	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	6 "	2	1	1	1	.....	.....	.....	.....	.....	.....	.....
	30 "	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	36 "	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in Aug....	.....	18	1	1	1	.....	1	.....	1	.....	1	24
September.	4 in.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	6 "	1	1	3	.....	.....	.....	.....	.....	.....	.....	.....
	8 "	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	10 "	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	30 "	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total in Sept....	.....	12	2	4	.....	.....	2	.....	.....	.....	.....	20

LEAKS IN 1888.—*Continued.*

Months.	Size of main pipe.	In Pipe.		In Valves.			Fire hydrants.	Sprinklers.	In Service Pipe.			Total.
		Joints.	Broken pipe.	Stuffing box.	Joints.	Broken screws.			At ferrules.	At stop cock.	In lead pipe.	
October.	4 in.		1									
	6 "			1								
	8 "	1		2								
	10 "	1										
	30 "	2			1							
Total in Oct.....		4	1	3	1				5			14
November.	4 in.		2		1							
	6 "	3										
	8 "	3		1								
	10 "	1										
	30 "	2										
Total in Nov....		9	2	1	1				5		3	21
December.	4 in.	3										
	6 "	1	1	1								
	30 "	5	1									
Total in Dec.....		9	2	1		7	1		4	1	2	27
Total for year...		80	11	20	10	9	4	3	32	9	19	197

A very bad break occurred in the 30-inch main in Division street hill, just east of Hanover street, at about six o'clock on the morning of December 12th. A piece of the top of the pipe about five feet long and nearly two feet wide was broken out. The rush of water soon cut a chasm in Hanover street, from Division street to the bottom of the hill, carrying the earth and sand across Old River street and the tracks and ore dock of the N. Y., P. & O. Railway. Fortunately the channel was almost wholly within the street lines and the damage to private property was comparatively light; a slight deviation to the west would have undermined several houses. Over two thousand cubic yards of earth was cut out and carried down the hill in less than one hour. This pipe had been in constant use for eight years and at the time of the accident was not under any greater pressure than usual. The iron was of good quality and showed no signs of previous rupture. The only reason that can be assigned for the break is that the ground in these side hills is constantly settling by reason of the sand flowing out with the springs that are common all along the base of the bluffs, and that such settlement caused a strain that broke the pipe.

WATER METERS.

The number of meters and other devices for measuring water, placed in service pipes since 1887, was 119, which number, added to those in use prior to 1888, makes a total of 1,644 as shown below.

The number of gallons of water measured was 2,181,467,200, being an increase of 186,940,160 gallons over the previous year, and a daily average consumption of 5,960,292 gallons.

The size and number of each size and name of meter is shown in the following table :

METERS IN USE DECEMBER 31, 1888.

Name of Meter.	$\frac{1}{2}$ in.	1 in.	1 $\frac{1}{2}$ in.	2 in.	3 in.	4 in.	Total.
Worthington.....	803	348	133	130	60	40	1,514
Crown.....		3			2	3	8
Ball & Fitts Rotary.....	2				1		3
Total.....	805	351	133	130	63	43	1,525

Total number of meters in use.....	1,525
Total number of elevators in use.....	100
Total number of water motors in use.....	5
Total number of private meters in use.....	14

There are 24 other private re-registering meters.

1,644

DISTRIBUTION.

The appended table giving the number of gallons of water pumped during the year, while showing an increase over 1887, is not as great in proportion to the increase in the number of consumers as for the year 1887. The percentage of increase in the number of consumers for both years was a fraction over 11 per cent. and while the percentage of increase of water pumped in the former year was 14 per cent. last year it was only 4.48 per cent. The difference is easily accounted for by the greater amount of rain fall and lower summer temperature during 1888. If the rate of increase in 1888 had been the same as in 1887 there would have been 409,760,000 gallons more water pumped than the table shows. The total quantity pumped at the Division street station was 8,491,091,152 gallons, making an average of 23,199,703 gallons per day. The total number of gallons pumped for the high service district was 127,324,650, or a daily average of 347,881, an increase of 7,182 gallons per day over the preceding year.

The cost of pumping each million gallons 100 feet high, at the Division street station, was \$3.08.

The income from the high service district was \$5,860.62, and the operating expense \$5,253.87.

OFFICE IMPROVEMENTS.

In the additional office room, secured early in the year, a fire-proof vault has been built having ample room for all the books, maps, plans and records belonging to the department. A suitable room in which to transact the business of your board has also been secured by this addition. The cost of these improvements will be found in the accompanying abstract of expenditures.

ESTIMATED EXPENDITURES FOR 1889.

Final payment on two Knowles engines	\$ 16,000
Final payment on Fairmount reservoir	4,000
Pipe extension for distribution	165,000

5,300 feet of 36-inch main pipe	\$ 50,000
Lake tunnel	100,000
Operating expenses and ordinary repairs	<u>100,000</u>
	\$ 435,000
Estimated income and cash in City Treasury	<u>469,000</u>
For operating expenses January to April, 1890	\$ 34,000

Respectfully submitted,

JOHN WHITELOW,

Superintendent and Engineer.

REPORT OF
Engineer of Pumping Department.



REPORT OF Engineer of Pumping Department.

To the Superintendent and Engineer of Cleveland Water Works :

DEAR SIR :—The Engineer of the West Side Pumping Department of the Cleveland Water Works would most respectfully submit the following annual report.

HENDERSON ENGINES.

These engines have done very little service during the past year, as you will observe on examination of the records. They have run only a little over one month during the year, and are held in reserve in case of accident to either of the others. The weather having been unusually favorable for our pumping business throughout the year, there has been very little service required of them, but we keep them ready to start at any time.

WORTHINGTON No. 1.

These engines have met with an unusual number of accidents during the year. On January 26 they forced a bottom valve seat out, which laid them up over ten hours. On February 6 they broke a plunger rod and cast iron plunger head, which laid them up nearly five days. On March 7 one of the nuts came loose on the valve stem in

the low pressure steam chest, which caused them to stop about ten hours. On June 1 they broke another plunger rod, which took three days to replace. On August 3 they broke a plunger rod, which took two and a half days to replace. On November 22 they broke a plunger rod and the working beam of one of the air pumps, and a lug off the high pressure cylinder that receives one of the tie rods. This accident laid them off thirteen days. I think if this engine had new plungers, new plunger rods and sleeves, it would run three or four years longer with very little danger of accident.

WORTHINGTON No. 2.

These engines have run almost constantly during the year without an accident of any kind. All the expense incurred was for packing and a new set of springs for the air pump bucket valves, reaming out the hole in the knuckle joint at the bottom end of the air pump connecting rod and a new pin for the same, and three studs for pump cylinder head. They are in good repair now.

WORTHINGTON No. 3.

These engines received last Spring a new set of water valves in the pumps, and a new set of bucket valves in the air pumps. On June 3 they broke one of the rock shaft arms, which was replaced with a new one. We opened the steam chest to ascertain the cause of the break, and found one of the nuts off the valve stem in the low pressure steam chest. It had dropped down at the end of the chest and prevented the valve from traveling to the end of its stroke. Aside from this accident this engine has done equally as well as No. 2. They are in good running order now.

KNOWLES ENGINES.

The two Knowles engines have been erected in the north building, and are now about completed. It was found necessary to remove the lower portion of the walls between the main engine room and the rooms of Nos. 2 and 3 Worthington engines, and support the upper

portion with iron beams and a column in the center, which was done, and it is a great improvement, giving much more light and room. It was also found necessary to lower the 30-inch discharge pipe at the southwest corner of the building, in order to allow the suction pipe for the Knowles engines to pass over it. The 36-inch main on Kentucky street has been connected to the 30-inch in front of the north building with a new 24-inch pipe, which reduces the back pressure on the pumps considerably.

BOILER FEED PUMPS.

I have had to give all the feed pumps a general overhauling during the year. The Cameron pump had the water cylinder bored out and a new plunger head, new valve spindles and steam slide valve faced off. No. 2 feed pump had new valve springs, new rock shaft and new steam piston rings. No. 3 feed pump had new brass plungers and sleeves, new valve seats and valve springs. No. 1 feed pump was held in reserve most of the year. So they are all in good working order now.

STEAM BOILERS.

Our boilers have caused us very little trouble or expense during the year; we have only had to put a small patch on two of them, and replace a few loose rivets in some others, and expand eight or ten flues that leaked; but next Spring it will be necessary to make quite extensive repairs to at least one boiler in the south fire room. During the year the six new tubular boilers for the two new Knowles engines have been completed, and we have now at the west side pumping station ten marine, eight tubular, and one portable boiler, all of which are in good working order.

IMPROVEMENTS.

A new track scales have been placed at the northeast corner of the north building to weigh the coal in the cars.

The old water closets have been removed and replaced with new ones.

I would recommend that a lathe, a drilling machine and a small stationary engine to run the same, be procured as soon as convenient. I think these tools and machines would prove both convenient and economical.

Respectfully submitted,

HENRY BOTTEN,

Engineer in Charge.

SCHEDULE,

Showing the gallons of water pumped and coal consumed in pumping; percentage of coal consumed and water pumped by each engine; contract price of coal and cost of coal for raising 1,000,000 gallons into reservoir.

Year.	Engine.	Number.	Water pumped by the different engines.	Pounds of coal consumed by the different engines.	Per cent. of water pumped by the different engines.	Per cent. of coal consumed by the different engines.	Coal consumed by the different engines for pumping 1,000,000 gallons into reservoir.	Per cent. of coal consumed by the different engines into reservoir.	Average contract price of coal.	Cost of coal for pumping 1,000,000 gallons into reservoir.
1888	Worthington.....	1	1,769,472.520	6,755,900	21.07	22.76	3,775	12.19	\$ 1 42	\$ 2 68
1888	Worthington.....	2	3,114,972.380	10,301,100	36.69	34.71	3,306	10.68	1 42	2 35
1888	Worthington.....	3	3,148,090.300	10,235,300	37.08	34.48	3,251	10.50	1 42	2 31
1888	Henderson.....	1	346,910.528	1,739,800	4.08	5.86	5,015	16.20	1 42	3 56
1888	Knowles	1	21,130.624	193,000	.25	.....	.....	.....	.....	.....
1888	Knowles	2	70,565.800	457,400	.83	.....	.....	.....	.....	.....
1888	Total and averages.....	.....	8,491,091.152	22,682,500	100.00	.....	3,495	.....	1 42	2 48

WORTHINGTON DUPLEX ENGINE No. 1, RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
January	29	623	15	375,880	9,000	825,600	834,600	235,033,200	187.98	43,904,450
February	7	145	10	87,316	.....	208,300	208,800	54,135,920	186.845	40,520,817
March	30	510	28	309,013	16,000	696,380	702,380	191,588,060	187.465	42,776,814
April	19	369	26	238,068	7,000	537,900	564,900	147,614,560	186.131	40,684,701
May	7	102	36	66,283	15,500	155,700	171,200	41,101,660	188.559	37,867,039
June	27	424	40	252,978	17,000	447,290	464,200	156,846,360	189.777	53,638,792
July	29	567	18	332,540	14,000	699,000	713,000	206,174,800	190.597	46,102,206
August	30	675	45	410,964	1,000	894,400	895,400	254,791,480	192.877	45,910,316
September	29	653	20	373,118	3,000	903,700	906,700	231,333,160	190.534	40,662,401
October	21	229	45	130,325	26,000	316,500	342,500	80,801,500	186.849	36,872,844
November	19	368	40	239,680	4,000	634,000	638,000	149,607,000	191.314	37,274,275
December	13	194	10	70,071	58,000	256,300	314,300	43,444,020	191.160	21,964,820
Total and averages.....		4,924	05	2,896,247	170,500	6,565,400	6,755,900	1,786,472,520	189.09	41,865,160

HENDERSON DUPLEX ENGINE, RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
January	1	5	30	2,541	1,000	15,000	16,000	1,483,944	191.666	14,854,232
February	23	544	15	381,666	1,000	1,125,200	1,126,200	222,892,944	189.14	31,280,312
June	12	257	45	173,964	.....	473,900	473,900	99,707,408	189.067	83,241,353
July	1	7	30	5,004	2,000	17,000	19,000	2,862,288	189.916	23,904,346
August	3	52	.....	31,902	1,000	103,700	104,700	19,963,944	194.444	30,476,455
Totals and averages	40	867	0	598,077	5,000	1,734,800	1,736,800	346,910,528	190.853	31,794,849

WORTHINGTON DUPLEX ENGINE No. 2, RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
January	29	681	30	412,803	3,000	733,100	736,100	255,937,860	188.175	54,729,968
February	28	587	10	364,352	1,000	756,200	757,200	225,898,240	188.946	47,152,411
March	31	742	50	449,424	1,000	949,100	950,100	278,642,880	187.465	45,990,184
April	23	537	30	351,387	3,000	683,700	686,700	217,859,940	186.518	49,498,130
May	31	744	.....	491,846	4,000	965,800	969,500	304,944,520	187.755	49,385,070
June	27	628	.....	389,870	3,000	845,500	846,500	241,719,400	189.829	45,342,427
July	31	732	45	444,425	2,000	866,200	868,200	276,543,500	190.279	50,514,625
August	31	738	.....	448,871	4,000	928,000	932,100	278,300,020	192.889	48,174,063
September	30	720	.....	414,021	3,000	901,500	904,500	266,683,020	190.277	45,170,246
October	31	744	.....	431,464	1,000	927,600	928,600	267,507,680	186.368	44,909,898
November	25	566	20	356,841	4,000	744,300	748,300	221,241,420	189.636	46,900,362
December	31	742	30	468,845	3,000	970,000	973,000	280,683,900	186.758	46,671,132
Totals and averages.....	348	8,164	35	5,024,149	32,000	10,269,100	10,301,100	3,114,972,380	188.741	47,561,045

WORTHINGTON DUPLEX ENGINE No. 3, RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
January	31	744	.....	452,181	1,000	824,000	825,000	280,362,220	187.576	53,320,359
February	28	649	.....	411,008	2,000	832,300	834,200	254,824,960	189.443	49,400,251
March	31	744	.....	447,171	1,000	853,000	851,000	277,246,020	187.465	50,908,776
April	26	594	.....	388,948	.....	790,800	790,800	241,147,760	185.327	47,273,250
May	29	684	.....	456,991	2,000	895,000	897,000	283,828,220	188.111	49,700,910
June	27	600	30	370,286	2,000	706,200	708,200	229,577,320	189.929	51,501,559
July	31	737	15	449,890	2,000	906,400	908,400	278,831,900	190.279	49,873,192
August	31	712	30	439,817	3,000	869,300	872,300	272,686,540	192.889	50,438,388
September	30	679	55	383,977	1,000	841,800	842,800	244,235,740	190.277	46,130,211
October	31	704	.....	413,591	6,000	966,700	962,700	256,428,420	186.368	41,524,347
November	30	688	45	433,676	3,000	899,500	902,500	268,873,500	188.616	47,005,642
December	31	679	50	420,040	10,000	827,300	837,300	280,424,900	186.758	49,588,507
Totals and averages	356	8,217	45	5,077,565	33,000	10,203,300	10,235,300	3,148,090,300	189.586	49,520,012

KNOWLES DUPLEX ENGINE No. 2 (WEST ENGINE), RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hra.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
August	4	19	.....	7,170	.....	.....	68,500	6,682,440		
September	2	10	25	5,066	.....	.....	54,600	4,721,512		
October	6	50	55	26,541	.....	.....	93,100	24,736,212		
November	3	23	.....	11,923	.....	.....	84,700	11,019,036		
December ..	6	46	.....	25,650	.....	.....	156,500	23,346,600		
Totals and averages	21	149	20	75,650	.....	.....	457,400	70,505,800		

KNOWLES DUPLEX ENGINE No. 1 (EAST ENGINE) RECORD FOR 1888.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
September	4	22	51	11,211	.....	.....	120,900	10,448.652		
December.	4	24	20	11,471	.....	.....	72,100	10,880.972		
Totals and averages.....	8	47	11	22,682	.....	.....	188,000	21,138.624		

TABLE,
Showing the total and average quantities of water pumped each year
since the beginning of the works.

Years.	Gallons distributed.				Per cent. of increase.
	Per year.	Per day.	Each inhabit'nt per day.	Each consumer per day.	
1857	127,262,265	348,664	7.75	110.68	.....
1858	142,155,434	398,467	8.37	93.44	11.70
1859	198,284,090	513,107	11.31	91.27	39.45
1860	260,220,354	710,984	14.11	106.57	31.87
1861	322,175,022	881,599	16.32	114.50	23.81
1862	369,673,092	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.68	123.89	12.14
1865	517,261,005	1,417,153	21.80	122.70	8.64
1866	587,372,220	1,609,239	22.35	124.28	13.55
1867	696,369,375	1,907,861	23.85	115.98	18.55
1868	768,786,975	2,106,265	24.77	116.08	10.40
1869	898,936,425	2,462,839	27.36	120.20	16.92
1870	1,126,228,500	3,085,558	30.86	113.20	25.28
1871	1,367,621,100	3,746,907	35.68	124.90	21.43
1872	1,686,370,805	4,607,571	40.07	131.64	22.67
1873	1,809,768,835	5,095,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.65
1875	2,216,775,816	6,073,358	44.00	136.65	8.12
1876	2,399,225,403	6,573,220	49.22	131.28	8.23
1877	2,820,326,074	7,726,920	55.91	142.24	17.55
1878	2,892,946,823	7,925,882	51.13	135.05	2.57
1879	3,455,271,981	9,466,498	62.69	145.61	19.43
1880	3,725,683,021	10,179,461	65.25	145.23	7.82
1881	4,847,209,363	13,280,025	76.76	162.34	30.10
1882	4,494,538,536	12,313,804	68.41	136.04	7.27
1883	5,187,432,657	14,212,144	75.60	136.80	15.41
1884	5,990,378,137	16,367,153	82.66	137.83	15.47
1885	6,552,003,190	17,950,694	93.49	139.28	9.37
1886	7,128,673,365	19,530,611	91.26	136.80	8.80
1887	8,127,146,648	22,266,155	95.97	140.38	14.00
1888	8,491,091,152	23,199,703	95.08	130.08	4.48

HIGH SERVICE CORNISH PUMPING ENGINE RECORD FOR 1888.
EAST ENGINE.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
January	4	31	10	18,050	42,700	18,500	61,200	5,794,050	160.124	12,677,409
February	4	32	.....	18,200	41,650	19,200	60,850	5,942,200	160.249	12,866,699
June.....	8	72	30	41,150	12,200	43,100	55,300	13,209,150	171.618	34,282,292
July	4	33	30	18,650	8,300	20,100	28,400	5,996,650	165.588	29,191,195
August	11	101	10	56,900	19,600	60,700	80,500	18,232,800	155.923	29,606,751
November	6	50	.....	27,550	20,300	32,100	52,400	8,813,550	161.041	22,728,870
December.....	6	50	30	27,200	34,800	33,300	68,100	8,731,200	161.458	17,311,878
Totals and averages.....	43	370	50	207,600	179,550	227,000	406,550	66,639,600	162.286	22,246,471

HIGH SERVICE CORNISH PUMPING ENGINE RECORD FOR 1888.—*Continued.*
WEST ENGINE.

Months.	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
March	3	22	.....	12,050	45,000	12,600	57,600	3,868,050	159.833	8,975,783
April	2	13	.....	6,850	17,700	7,100	24,800	2,198,850	157.499	11,678,249
May	13	104	.....	58,100	15,500	57,200	72,700	18,008,100	163.403	33,948,482
September	14	122	40	66,250	23,700	68,900	92,600	21,266,250	158.940	30,525,645
October	11	90	50	47,800	22,900	52,850	75,750	15,343,800	161.355	27,883,541
Totals and averages	43	352	30	189,050	124,800	198,650	323,450	60,685,050	160.208	26,137,108

HIGH SERVICE-CORNISH PUMPING ENGINE RECORD FOR 1888.—*Continued.*
BOTH ENGINES.

	Days.	Pumping.			Coal consumed.			Gallons of water pumped.	Height in feet and decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising steam.	Pumping.	Total.			
East engine.....	43	370	50	207,600	179,550	227,000	406,550	66,639,600	162.286	22,246,471
West engine..	43	352	30	189,050	124,800	186,650	323,450	60,886,050	160.206	25,137,108
Totals and averages.....	86	723	20	396,650	304,350	425,650	730,000	127,524,650	161.419	23,544,949

SCHEDULE,

Showing the distribution of water for each day and month in the year 1888.

IN HIGH SERVICE DISTRICT.

Months.	Gallons of water pumped by East Cornish Engine.	Gallons of water pumped by West Cornish Engine.	Gallons distributed.	
			Per month.	Average per day.
January	5,794,050	.....	5,794,050	186,905
February	5,842,200	.....	5,842,200	201,455
March .....	.....	3,868,050	3,868,050	124,776
April .....	.....	2,198,850	2,198,850	73,295
May .....	.....	18,008,100	18,008,100	580,906
June	13,209,150	.....	13,209,150	440,305
July	5,986,650	.....	5,986,650	191,118
August	18,232,800	.....	18,232,800	588,155
September .....	.....	21,266,250	21,266,250	708,875
October .....	.....	15,343,800	15,343,800	494,961
November	8,843,550	.....	8,843,550	294,785
December	8,731,200	.....	8,731,200	281,652
Totals and averages	66,639,600	60,685,050	127,324,650	347,881

SCHEDULE,

Showing the total and average quantities of water pumped each year by the High Service Pumping Works.

Years.	Gallons distributed.		Per cent. of increase.
	Per year.	Average per day.	
1886	207,975,900	565,797	2.1
1887	124,355,400	340,699	
1888	127,324,650	347,881	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
	36 inch.	West Side Pumping W'ks, North Building.....	From east Knowles engine to south end of 36x30 inch Cross.....	25		
	36 inch.	West Side Pumping W'ks, North Building.....	From west Knowles engine to south end of 36x30 inch Cross.....	25		
West ..	30 inch.	McBride St.....	From south end north curve at Willson avenue, to 25 feet, 5 inches south of center of 30 inch valve at south line of Broadway.....	1,094	50	
East.....	30 inch.	Willson Ave.....	From 1 foot, 9 inches north of south line Scovill avenue, to south end of north curve at McBride street.....	7,281		
					8,375	
	24 inch.	West Side Pumping Station.....	From 3 feet, 11 inches south of 24 inch valve in front of north building, south to connect with discharge mains of south building.....	161		Relaid.
South.....	12 inch.	Broadway.....	From 30 inch pipe in McBride street, west.....	13	164	
South.....	12 inch.	Francis.....	From 30 inch pipe in Willson avenue, east.....	42		
	12 inch.	Francis.....	From 12 inch pipe in Francis street to 8 inch pipe in Francis street.....	16		
West.....	12 inch.	McBride.....	From 12 inch pipe in Broadway to 8 inch pipe in Broadway.....	21		
South.....	12 inch.	Old River.....	From 12 inch Cross in Taylor street east to 12 inch connection valve.....	17		
East.....	12 inch.	Rhodes.....	From 12 feet south of Clark avenue south to Newark.....	954		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
West ...	12 inch.	Willson	From 8 inch pipe in Broadway north.....	32		
East.....	12 inch.	Willson.....	From 12 inch pipe in Woodland avenue south.....	15		
West ...	12 inch.	Willson.....	From 30 inch pipe in McBride St. to 11 ft., 8 in. south of S. L. McBride St.....	40		
South ...	12 inch.	Woodland	From 30 inch pipe in Willson avenue to 12 inch pipe in Willson avenue.....	14		
South ...	12 inch.	Woodland	From 10 inch pipe in Willson avenue east.	54		
					1,218	
East.....	10 inch.	Case	From 8 inch pipe in Lake street on the west to 8 inch pipe in Lake street on the east.....	160		6 inch relaid with 10 inch.
North ..	10 inch.	Franklin.....	From 8 feet west of Waverly avenue to Gordon avenue.....	1,036		
					1,196	
West ...	8 inch.	Alabama.....	From north line Lake street north.....	339		6 and 4 inch relaid.
East.....	8 inch.	Case	From pipe in Lake street on the east to L. S. & M. S. R. R.....	365		6 inch relaid.
South ...	8 inch.	East Prospect.....	From pipe in East Madison avenue to 792 feet west of Morse avenue.....	1,291		
South ...	8 inch.	East Prospect.....	From pipe in Lincoln avenue east to connection.....	539		
South ...	8 inch.	East Prospect.....	From pipe in Euclid place east.....	151		
East.....	8 inch.	East Madison.....	From pipe in Garden street to 68 feet north of Golden street.....	446		
East.....	8 inch.	East Madison.....	From pipe in Cedar avenue south.....	235		
South ...	8 inch.	Garden.....	From pipe in Lincoln ave to pipe in Bertram street.....	297		
South ...	8 inch.	Garden.....	From 6 feet east of Madison avenue to pipe in Edwards street.....	633		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—*Continued.*

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
East....	8 inch.	Gordon	From 154 feet north of Lawn street to pipe in West Madison avenue.....	256		
South...	8 inch.	Hough	From 16 feet east of Harkness avenue to 383 feet east of Holt street.....	817		
South...	8 inch.	Lake.....	From 279 feet east of Coe street to 169 feet west of Coe street.....	508		
South...	8 inch.	Lake.....	From 548 feet east of Belden avenue to 7 feet east of west line Kirtland street.....	158		
North...	8 inch.	Lake.....	From pipe in Wason street west to connect.....	372		
North ..	8 inch.	Lake.....	From pipe in Wason street to pipe in Case avenue.....	774		4 & 6 in. relaid.
East....	8 inch.	McBride	From pipe in Broadway south.....	51		
South...	8 inch.	Old River	From cross in Taylor street to 48 feet west of Weddell street.....	1,795		
North ..	8 inch.	Payne.....	From pipe in Hazard street west to connect.....	49		
East....	8 inch.	Randall.....	From pipe in Bridge St. to 22 ft. N. of Lorain St. to connect with 12 in. pipe..	448		
South...	8 inch.	Wade Park Ave.....	From 145 feet west of Beaumont street to 256 feet east of Beaumont street.....	461		Private.
South...	8 inch.	West Madison	From pipe in Gordon avenue west to city limits.....	383		
North ..	8 inch.	Woodland	From cross in Tennyson street to 53 feet east of Blumark street.....	752		
West....	8 inch.	Wason.....	From pipe in Lake street to 5 feet north of Lake street.....	49		4 & 6 in. relaid.
East....	8 inch.	Waverly	From 132 feet north of Crescent street north.....	15		
					11,200	
South...	6 inch.	Amos	From pipe in East Madison avenue to pipe in Edwards street.....	672		
East....	6 inch.	Ballou.....	From north line Barkwill street to pipe in Barkwill street.....	19		
North ..	6 inch.	Barkwill.....	From 163 feet east of Ballou street west to Dot street.....	1,029		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
East.....	6 inch.	Beaumont.....	From pipe in Decker avenue to pipe in Wade Park avenue.....	596		Private.
East.....	6 inch.	Becker.....	From pipe in Bliss avenue south to connect.....	108		
East.....	6 inch.	Bergen.....	From pipe in Clark avenue to pipe in Train street.....	816		
West.....	6 inch.	Bertram.....	From pipe in Garden street south to connect.....	211		
West.....	6 inch.	Bertram.....	From 660 feet south of Cedar avenue south.....	68		4 to 6 in. relaid.
West.....	6 inch.	Belmont.....	From pipe in Groton street north.....	46		
E. & S.....	6 inch.	Bliss.....	From pipe in St. Clair street to pipe in Becker avenue.....	1,706		
South.....	6 inch.	Brayton.....	From pipe in Fruit alley to 522 feet east of Yates street.....	990		
South.....	6 inch.	Blanche.....	From 85 feet west of Randolph to 141 feet east of Randolph.....	276		
S. & E.....	6 inch.	Brig.....	From pipe in Chestnut Ridge street to pipe in Colgate street.....	963		
West.....	6 inch.	Brighton.....	From 667 feet south of Clark avenue to Meyer avenue.....	861		
South.....	6 inch.	Brainard.....	From pipe in Seranton avenue to 548 feet east of East View avenue.....	1,564		
West.....	6 inch.	Brooklyn.....	From 370 feet south of Meyer avenue to 33 feet south of Sackett street.....	416		
South.....	6 inch.	Buckley.....	From 7 feet west of Burton street to pipe in Myrtle street.....	373		
South.....	6 inch.	Buhrer.....	From pipe in Merchant avenue west to connect.....	690		
East.....	6 inch.	Cable.....	From pipe in Broadway north.....	282		
South.....	6 inch.	Cedar.....	From pipe in Kennard street to pipe in Arlington street.....	332		
East.....	6 inch.	Central Viaduct.....	From pipe in Harrison street south.....	385		
South.....	6 inch.	Chard Ave.....	From pipe in Petrie street to Athey street.....	519		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
East....	6 inch.	Chestnut Ridge.....	From pipe in Lawn street to pipe in Brig street.....	332		
South...	6 inch.	Clover	From pipe in Scranton avenue east to East View avenue.....	902		
West....	6 inch.	Cologne.....	From 61 feet north of Auburn street to pipe in Lamaille street.....	245		
South...	6 inch.	Colfax	From pipe in Deckard street to Sharon street.....	758		
North ..	6 inch.	Conrad	From pipe in Higgins to pipe in Chestnut Ridge street.....	1,049		
North ..	6 inch.	Crawford.....	From 7 feet east of the west line of Tilden street east.....	255		
South...	6 inch.	Czar	From 33 feet east of Colorado street east to connect.....	258		
East....	6 inch.	Deckard	From north line Kinsman street to pipe in Colfax street.....	348		
South...	6 inch.	Decker	From pipe in Siedle avenue to pipe in Beaumont street.....	321		Private.
South...	6 inch.	Dellenbaugh.....	From pipe in Giddings avenue east.....	746		
West....	6 inch.	Devine.....	From pipe in Bailey street south.....	408		
South...	6 inch.	Dibble.....	From pipe in Norwood street west to connect.....	951		
East....	6 inch.	Dickerman.....	From south line Kinsman street to 14 feet south of Rouse street.....	940		
East....	6 inch.	Dorchester.....	From pipe in Euclid avenue to Hough avenue.....	1,441		
East....	6 inch.	Douglas.....	From pipe in Payne avenue south.....	801		
South...	6 inch.	Dower	From pipe in Scranton avenue east.....	302		
South...	6 inch.	Edmunds.....	From pipe in Holt street east to connect.....	31		
East....	6 inch.	Edwards.....	From pipe in Garden street south to connect.....	24		
East....	6 inch.	Elk.....	From pipe in Clark avenue north.....	695		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
West....	6 inch.	Emmet	From north line Marquardt street to South street.....	428		
North ..	6 inch.	Ensign	From 373 feet east of Willson avenue east.	58		
South....	6 inch.	Erin	From west line Pearl street west.....	419		
East.....	6 inch.	Euclid Place.....	From north line East Prospect street to pipe in East Prospect street.....	48		
East.....	6 inch.	Everett	From pipe in Payne avenue south.....	754		
West....	6 inch.	Fairmount	From 12 feet north of Euclid avenue north.....	816		
South....	6 inch.	Finn	From pipe in Sawtell avenue to west line Sawtell avenue.....	36		
North....	6 inch.	Fruit.....	From west line Fruit alley to pipe in Fruit alley.....	6		
West....	6 inch.	Fruit Alley.....	From pipe in Fruit street to pipe in Brayton street.....	87		Private.
North....	6 inch.	Gary	From pipe in Ingleside avenue east.....	211		
West....	6 inch.	Giddings.....	From south line Platt street north.....	289		
East....	6 inch.	Giddings.....	From pipe in Zoeter avenue to pipe in Dellenbaugh avenue.....	244		
South....	6 inch.	Glazier.....	From west line Track street east to connect with Sawtell avenue pipe.....	20		
North ..	6 inch.	Grace	From pipe in Chestnut Ridge street west.....	573		
South....	6 inch.	Hamm	From pipe in Broadway west.....	41		
South....	6 inch.	Hamm	From pipe in Goethe street to pipe in Petrie street.....	1,191		
East....	6 inch.	Hamburgh.....	From pipe in Clark avenue to 138 feet north of Arkansas.....	1,352		
East....	6 inch.	Hazard	From south line Superior street to 166 feet north of Payne avenue.....	550		Private.
East....	6 inch.	Hazard	From 166 feet north of Payne avenue to pipe in Payne avenue.....	186		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South...	6 inch.	Herrman.....	From cross in St. Paul street east.....	38		
East.....	6 inch.	Herald	From pipe in Wagner street to 24 feet south of Morton street.....	379		
East.....	6 inch.	Hillman	From north line Broadway north.....	298		
East.....	6 inch.	Hollister.....	From pipe in Broadway to pipe in Track street.....	1,141		
West.....	6 inch.	Holt.....	From pipe in Hough avenue to 189 feet north of Talbot street	940		
East.....	6 inch.	Holt.....	From pipe in Hough avenue to pipe in Hough place.....	295		
South...	6 inch.	Hough place	From 200 feet west of Holt street to 338 feet east of Holt street.....	598		
South...	6 inch.	House.....	From pipe in Sawtall avenue west.....	336		
East.....	6 inch.	Hoyt.....	From 177 feet south of L. S. & M. S. R'y north.....	1,256		
East.....	6 inch.	Hurlbut	From pipe in Payne avenue south.....	658		
North...	6 inch.	Hudson.....	From pipe in Doan street east.....	342		
West.....	6 inch.	Ingleside.....	From pipe in Euclid to 111 feet north of Gary street.....	1,446		Private.
East.....	6 inch.	Isabella	From 1,977 feet south of Clark avenue south.....	301		
North...	6 inch.	James.....	From pipe in Merwin street to east line Merwin street.....	27		4 to 6 in. relaid.
North...	6 inch.	James.....	From east line Merwin street east.....	219		
North...	6 inch.	Jefferson.....	From pipe in Emmet street to pipe in University street.....	252		
East.....	6 inch.	Judson.....	From pipe in Quincy street to pipe in Sherman street.....	349		
East.....	6 inch.	Kane.....	From pipe in Bailey street south.....	408		
South...	6 inch.	Lamolle.....	From pipe in Cologne street to Berlin street.....	210		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South....	6 inch.	Lamont.....	From pipe in North Logan street east.....	302		
South....	6 inch.	Lena	From pipe in Norwood street to west line Norwood street.....	36		
North....	6 inch.	Lester	From pipe in Finn street east.....	221		
East....	6 inch.	Lewis.....	From pipe in St. Clair street to pipe in Bliss avenue.....	1,338		
East....	6 inch.	Liberty..	From 33 feet south of Turn street to pipe in Ravine street.....	618		
South....	6 inch.	Lucia.....	From pipe in Edwards street west.....	494		
West....	6 inch.	Louis	From pipe in Clark avenue to 227 feet south of Sackett street.....	2,578		
East....	6 inch.	Lisbon....	From 236 feet south of Woodland avenue south.....	435		
East....	6 inch.	Mead	From pipe in Track street south to connect.....	90		
West....	6 inch.	Merchant.....	From pipe in Buhner avenue to 203 feet north of Rowley street.....	547		
East....	6 inch.	Merkel.....	From pipe in St. Clair street north.....	1,018		
West....	6 inch.	Middle.....	From pipe in Prospect street to north line Huron street.....	537		
South....	6 inch.	Montgomery.....	From pipe in Giddings avenue to pipe in Parker street.....	690		
West....	6 inch.	Morse.....	From pipe in East Prospect street north.....	31		
East....	6 inch.	Mumford place.....	From pipe in Broadway to north line Broadway.....	22		
East....	6 inch.	Myrtle.....	From pipe in Buckley street to north line Buckley street.....	36		
North....	6 inch.	Newman.....	From 11 feet east of Tod street east.....	416		
East....	6 inch.	North East.....	From north line Kinsman street north.....	667		
West....	6 inch.	North Logan.....	From pipe in Lamont street south to connect.....	10		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
East....	6 inch.	Norwood.....	From pipe in Lena avenue south.....	122		
East....	6 inch.	Nursery.....	From pipe in Praha street to Beraun street.....	444		
South....	6 inch.	Norman.....	From pipe in Doan street east.....	232		
East....	6 inch.	Olive.....	From pipe in Hough avenue south.....	285		
East....	6 inch.	Parker.....	From pipe in Garden street to pipe in Quincy street.....	1,018		
East....	6 inch.	Park place.....	From pipe in Euclid avenue north.....	1,182		
West....	6 inch.	Petrie.....	From south end of Petrie street bridge to south line of Chard avenue.....	821		
East....	6 inch.	Percival.....	From 321 feet south of St. Clair street south to connect.....	382		
East....	6 inch.	Phillips.....	From pipe in Sawtall avenue to pipe in Praha street.....	876		
East....	6 inch.	Pleasant.....	From 727 feet south of Clark avenue south.....	385		
South....	6 inch.	Praha.....	From pipe in Phillips street to pipe in Nursery street.....	246		
South....	6 inch.	Quimby.....	From pipe in Willson avenue to Norwood street.....	1,662		
West....	6 inch.	Randolph.....	From pipe in Dolloff street to pipe in Blanche.....	722		
East....	6 inch.	Raney.....	From pipe in St. Clair street to pipe in Bliss avenue.....	1,164		
North....	6 inch.	Ravine.....	From 133 feet west of Birch street to 22 feet west of east line Dare street.....	59		
North....	6 inch.	Ravine.....	From east line Birch street to pipe in Liberty street.....	415		
South....	6 inch.	Rowley.....	From pipe in Merchant avenue west to connect.....	111		
West....	6 inch.	Russell.....	From pipe in Wade Park avenue north.....	319		
East....	6 inch.	Rutland.....	From south line Kinsman street to 164 feet south of Trenton street.....	753		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
West....	6 inch.	State.....	From T in Washington street south to Cross.....	22		
East.....	6 inch.	Sawtell.....	From pipe in House street south.....	443		
East.....	6 inch.	Sawtell.....	From pipe in Glazier street to pipe in Phillips street.....	414		
West....	6 inch.	Sayles.....	From pipe in Cedar avenue south.....	1,069		Private.
East.....	6 inch.	Seedle.....	From pipe in Star avenue to pipe in Decker avenue.....	394		Private.
East.....	6 inch.	Sheridan.....	From pipe in Francis street south.....	554		
South....	6 inch.	Sherman.....	From 230 feet east of Judson street to Leasing street.....	804		
West....	6 inch.	South Bell.....	From 797 feet south of Cedar avenue south.....	878		
East.....	6 inch.	Southern.....	From 547 feet north of North Woodland avenue north.....	165		
South....	6 inch.	Stanton.....	From pipe in East Madison avenue west to Judson street.....	773		
South....	6 inch.	Stone.....	From 187 feet west of Weddell street to 97 feet east of Weddell street.....	353		
North....	6 inch.	Stone.....	From 97 feet east of Weddell street to 179 feet east of Gaskill street.....	457		
West....	6 inch.	Swiss.....	From 336 feet south of Lornain street south.....	496		
West....	6 inch.	Streator.....	From south line Cedar avenue south.....	958		
East.....	6 inch.	Tennyson.....	From pipe in Woodland avenue south.....	837		
South....	6 inch.	Track.....	From pipe in Mead street to pipe in Hollister street.....	188		
West....	6 inch.	Tremont.....	From pipe in Willey street to pipe in Jefferson street.....	476		
East.....	6 inch.	Victor.....	From pipe in Glazier street north.....	320		
South....	6 inch.	Vivian.....	From pipe in Ballou street west to Dot street.....	538		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South...	6 inch.	Washington.....	From pipe in State street west.....	545		
East.....	6 inch.	Watkins.....	From pipe in East Prospect street to 17 feet north of Cedar avenue.....	414		
East.....	6 inch.	Weckerling.....	From pipe in Hamm street to 44 feet south of Blanche street.....	1,042		
North...	6 inch.	Wellesley place.....	From pipe in Sawtell avenue to Beacon street.....	649		Private.
South ..	6 inch.	Whitney.....	From pipe in Wilmars street east to Russell avenue.....	3.5		
East.....	6 inch.	Wilmars.....	From pipe in Superior street to north line Whitney street.....	650		Private.
East.....	6 inch.	Wilmars.....	From north line Whitney street to pipe in Whitney street.....	36		
South...	6 inch.	Willey.....	From pipe in Merchant avenue to pipe in Pelton avenue.....	505		
South...	6 inch.	Willson place.....	From pipe in Willson avenue east to Norwood street.....	1,656		
East.....	6 inch.	York.....	From pipe in York street extension north.....	14		
South...	6 inch.	Zoeter.....	From pipe in Giddings avenue to west line Giddings avenue.....	36		
	6 inch.	For Hydrants.....		8	77,759	
West.....	4 inch.	Bank.....	From 285 feet north of Lake north.....	15		
South...	4 inch.	Blatt place.....	From pipe in Pearl street west.....	301		Private.
South...	4 inch.	Caleb court.....	From pipe in Barkwill street east.....	234		
North...	4 inch.	Cobleigh.....	From 5 feet east of Willson avenue east.....	337		
North...	4 inch.	Gordon court.....	From pipe in Gordon avenue west.....	269		
South...	4 inch.	Gustave court.....	From pipe in Pearl street west.....	276		Private.

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South...	4 inch.	Hacker court.....	From pipe in Phillips street east.....	129	6,783	Private.
East.....	4 inch.	Paddock place	From pipe in Woodland avenue to pipe in Outhwaite avenue.....	655		
South...	4 inch.	Paris street.....	From pipe in Rhodes avenue east.....	356		
South...	4 inch.	Pearl court.....	From pipe in Pearl street east....	323		
		For hydrants.....		3,888	389	
West....	3 inch.	Oak Grove.....	From pipe in Willey street north.....	339		
East.....	3 inch.	Sawtell alley	From pipe in Outhwaite avenue south.....	32		
	3 inch.	For hydrants		18		

LOW SERVICE DISTRICT.—SCHEDULE, OF PIPE TAKEN OUT AND ABANDONED IN 1888.

Size of pipe taken out or abandoned.	Size of pipe relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
24 inch.	24 inch.	West Side pumping station.....	From 3 ft., 11 in. south of 24 inch valve in front of north building south to connect with discharge mains of south building.....	164	164	Taken out and relaid.
6 inch.	8 & 10 inch.	Case	From 8 inch pipe in Lake street on the west to L. S. & M. S. R'y.....	525	178	Taken out and relaid.
6 inch.	8 inch.	Alabama	From north line Lake street north.....	178		Taken out and relaid.
6 inch.	8 inch.	Lake.....	From pipe in Case avenue to west line Case avenue.....	46		Taken out and relaid.
6 inch.	8 inch.	Wason.....	From pipe in Lake street to north line Lake street.....	44		Taken out and relaid.
4 inch.	6 inch.	Belmont.....	From pipe in Croton street north.....	46	788	Taken out and relaid.
4 inch.	8 inch.	Alabama	From 178 feet north of Lake street north.....	161		Taken out and relaid.
4 inch.	6 inch.	James.....	From pipe in Merwin street to east line Merwin street.....	27		Taken out and relaid.
4 inch.	8 inch.	Lake.....	From 16 feet west of east line Wason street to pipe in Wason street.....	42		Abandoned and relaid.
4 inch.	8 inch.	Lake.....	From 16 feet west of east line Wason street to west line Case avenue.....	686	967	Taken out and relaid.
4 inch.	8 inch.	Wason.....	From north line Lake street north.....	5		Taken out and relaid.
3 inch.		Taken out with hydr'ls.....		216		
					216	

RECAPITULATION.

112,879	feet of supply main.....	equal to	21 miles	1,999 feet.
1,242,040	feet of distributing main.....	equal to	235 miles	1,240 feet.
1,351,919	feet of main.....	equal to	256 miles	3,239 feet.
8,425	feet of increased supply main in 1888.....	equal to	1 mile	3,145 feet.
96,509	feet of increased distributing main in 1888.....	equal to	18 miles	1,529 feet.
104,994	feet of main in 1888.....	equal to	19 miles	4,674 feet.

LOW SERVICE DISTRICT.—SCHEDULE OF PIPE LOWERED IN 1888.

Size.	Street.	Between What Points.	Feet.	Total.
12 inch.	Franklin avenue.....	From 86 feet east of Root street to west line Waverly.....	2,313	2,312
8 inch.	Quincy.....	From Madison avenue to Giddings avenue.....	1,680	
8 inch.	St. Clair.....	From west line Madison avenue to 13 feet east of Becker avenue.....	1,855	
6 inch.	Birch.....	At Franklin avenue.....	182	3,505
6 inch.	Birch.....	At Detroit street.....	264	
6 inch.	Cedar.....	From 50 feet east of Forest street to pipe in Kennard street.....	1,586	
6 inch.	Cedar.....	From Arlington street to Wilson avenue.....	410	
6 inch.	Courtland.....	At Franklin avenue.....	122	
6 inch.	Case avenue.....	From St. Clair street to Lake street.....	866	
6 inch.	Dodge.....	From St. Clair street to Lake street.....	570	
6 inch.	Dare.....	At Franklin avenue.....	105	
6 inch.	Forest.....	From Garden to Woodland.....	2,283	
6 inch.	High.....	From west line to east line of Middle street.....	62	
6 inch.	Hoyt.....	From pipe in St. Clair street to 30 feet west of St. Clair street.....	88	
6 inch.	Jewett.....	From end of pipe 100 feet east.....	100	
6 inch.	Liberty.....	At Franklin avenue.....	106	
6 inch.	Longwood.....	From Scovill avenue to Woodland avenue.....	1,083	

LOW SERVICE DISTRICT.—SCHEDULE OF PIPE LOWERED IN 1888.—Continued.

Size.	Street.	Between What Points.	Feet.	Total.
6 inch.	Lake.....	From pipe in Case avenue east.....	44	
6 inch.	Mayflower.....	From Woodland avenue to Croton street.....	874	
6 inch.	Norwood.....	From Luther avenue to White avenue.....	839	
6 inch.	Petrie.....	From south line of bridge to south line of Chard avenue.....	923	
6 inch.	Petrie.....	From 160 feet south of Barkwill street to 177 feet north of Barkwill street.....	397	
6 inch.	Root.....	At Franklin avenue.....	66	
6 inch.	Sibley.....	From Hayward street to Case avenue.....	1,279	
6 inch.	Streator.....	From Euclid avenue to Wilbur street.....	1,132	
6 inch.	Scott.....	At Franklin avenue.....	110	
6 inch.	Waverly.....	At Franklin avenue.....	90	
6 inch.	White.....	At Norwood.....	38	
				13,489
4 inch.	Beech.....	From Scovill to Woodland avenue.....	1,195	
4 inch.	Hamilton.....	At Dodge street intersection.....	120	
				1,315

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South...	10 inch.	Aetna.....	From 12 feet east of Axtell street east to C. & P. R. R.....	1,074		
South...	10 inch.	Union.....	From east line Paton street to 28 feet east of Upton street.....	613		
South...	10 inch.	Union.....	From 12 feet east of Axtell street to 104 feet east of Stafford street.....	992		
South...	10 inch.	Union.....	From 12 feet west of Axtell street west to Groton street.....	611		
West...	10 inch.	Woodland Hills.....	From 16 inch pipe in Woodland avenue to 14 feet south of Woodland.....	72		
West...	10 inch.	Woodland Hills.....	From 20 inch pipe in Way street south.....	174		
					3,536	
West...	8 inch.	Sawyer.....	From 39 feet north of Richmond street north.....	73		
West...	8 inch.	Tod.....	From pipe in Forman street north to Ormond street.....	455		
South...	8 inch.	Woodland.....	From pipe in Woodland Hills avenue to 147 feet west of Corwin street.....	1,597		
West...	8 inch.	Woodland Hills.....	From pipe in Miles avenue to pipe in Covington street.....	336		
					2,461	
North...	6 inch.	Aetna.....	From pipe in Axtell street to 217 feet west of Wright street.....	1,457		
West...	6 inch.	Bissell.....	From pipe in Harvard street to 33 feet north of Clement street.....	735		
North...	6 inch.	Clasien.....	From pipe in Bissell avenue to 14 feet west of Compton street.....	985		
East...	6 inch.	Corwin.....	From pipe in Woodland avenue south.....	1,009		
West...	6 inch.	Cottage.....	From pipe in Marble street to pipe in Osage street.....	640		
West...	6 inch.	Cottage.....	From pipe in Osage street north.....	328		
South...	6 inch.	Covington.....	From pipe in Woodland Hills avenue to pipe in McConnell street.....	831		

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING THE EXTENSION OF WATER PIPE IN 1888.—Continued.

Side.	Size.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
South....	6 inch.	Finney.....	From west line Eben street to 12 feet west of east line Graves street.....	485		
South....	6 inch.	Forman.....	From 8 feet west of Broadway to pipe in Tod street.....	1,451		
South....	6 inch.	Hughes.....	From 11 feet west of Broadway to Hooker street.....	957		
West....	6 inch.	Ledyard.....	From pipe in Forman street south.....	289		
West....	6 inch.	McConnell.....	From pipe in Miles avenue to pipe in Covington street.....	335		
South....	6 inch.	Osage.....	From pipe in Cottage st. on the S. to 9 ft. W. of E. L. of Cottage st. on the N.	62		
East....	6 inch.	Patton.....	From pipe in Union street north to connect.....	25		
West....	6 inch.	Reade.....	From pipe in Classen street south.....	159		
East....	6 inch.	Rockland.....	From 9 feet north of Kinsman street north.....	14		
West....	6 inch.	Spafford.....	From pipe in Fullerton street to south line Canton street.....	1,011		
East....	6 inch.	Spafford.....	From south line Canton street to Jones avenue.....	1,414		
West....	6 inch.	Stark.....	From pipe in Cedar avenue to pipe in Wilbur place.....	490		
North....	6 inch.	Steinway.....	From pipe in Woodland avenue to 65 feet west of Woodland Hills avenue.....	1,339		
West....	6 inch.	Valley.....	From 12 feet south of Harvard to pipe in Finney street.....	757		
West....	6 inch.	Whitehead.....	From south line Harvard street south.....	154		
West....	6 inch.	For hydrants.....		36		
					14,923	
	4 inch.	For hydrants.....		768		768

HIGH SERVICE DISTRICT.—TOTAL FEET OF PIPE LAID TO DECEMBER 31, 1888.

Diameter of Pipe.	36 inch.	30 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.
Previous to 1883.....		16,308	2,814	6,070	3,378	12,373	10,986	9,389	15,612	2,148	.....
Laid in 1888.....							3,536	2,461	14,923	768	.....
Total in use Dec. 31 1888.....		16,308	2,814	6,070	3,378	12,373	14,522	11,850	30,535	2,916	.....
			28,570					72,226			

RECAPITULATION.

72,226 feet of distributing main.....	equal to 13 miles	3,586 feet.
28,570 feet of supply main.....	equal to 5 miles	2,170 feet.
100,796 feet of main.....	equal to 19 miles	476 feet.
21,688 feet of increased main.....	equal to 4 miles	568 feet.

MILEAGE OF PIPE IN LOW AND HIGH SERVICE DISTRICTS.

256 miles	3,239 feet.....	in Low Service District.
19 miles	476 feet.....	in High Service District.
275 miles	3,715 feet.....	in both Districts.
19 miles	4,674 feet.....	increase in Low Service District.
4 miles	568 feet.....	increase in High Service District.
23 miles	5,242 feet.....	increase in both Districts.
	2,140 feet of pipe.....	relaid and lowered.
3 miles	4,781 feet of pipe.....	lowered.
4 miles	1,641 feet of pipe.....	relaid and lowered.

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Amos.....	285	E. of Edwards St.....	
1	4 "	North	Barkwill.....	153	E. of Ballou St.....	
1	4 "	"	"		At Gleaney St.....	
1	4 "	"	"		At Devoy St.....	
1	4 "	"	"		At Dot St.....	
1	4 "	East.....	Beaumont.....	206	N. of Wade Park Ave.....	
C1	3 to 4	"	Beech.....	20	S. of Scovill Ave.....	
1	4 "	"	"	542	"	
C1	3 to 4	"	"	326	N. of Woodland Ave.....	
1	4 "	"	"	9	"	
1	4 "	"	Bergen	171	" Clark Ave.....	
1	4 "	"	"	300	S. of Train St.....	
1	4 "	West.....	Belmont.....	10	W. of Croton St.....	
1	4 "	South.....	Blatt Place.....	273	" Pearl St.....	
1	4 "	East.....	Bliss.....	287	S. of St. Clair St.....	
1	4 "	"	"	609	"	
1	4 "	"	"	921	"	
1	4 "	South.....	"		At Ranney Ave.....	
1	6 "	East.....	Bond	7	N. of Superior St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South	Brayton	153	W. of Yates St.	
1	4 "	"	"	170	E. of "	
1	4 "	"	"	522	"	
1	4 "	"	Brig	837	" Chestnut Ridge St.	
1	4 "	North	"	31	W. of angle in street.	
1	4 "	West	Brighton		At Meyer Ave.	
1	4 "	"	"	320	N. of Meyer Ave.	
1	4 "	"	"	566	"	
1	4 "	South	Brainard	214	E. of Scranton Ave.	
1	4 "	"	"	561	"	
1	4 "	"	"		At East View Ave.	
1	4 "	"	"	251	E. of "	
1	4 "	"	"	548	"	
C1	3 to 4	West	Broadway	115	N. of N. Y., P. & O. R'y.	
1	4 "	"	Brooklyn	33	S. of Sackett St.	
1	4 "	South	Buckley	164	W. of Barton	
1	4 "	"	Buhrer	47	" Merchant Ave.	
1	4 "	"	"	337	"	
1	4 "	"	Blanche	141	E. of Randolph St.	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.	Blanche	85	W. of Randolph St.	
1	4 "	East	Cable	238	N. of Broadway	
1	4 "	South	Caleb Court	208	E. of Barkwill St.	
1	4 "	East	Caso	250	N. of Woodland Ave.	
1	4 "	"	"		At Lake St. on the east	
1	4 "	"	"		N. of Mahoning St.	
C1	3 to 4	"	Central Way	215	At Harrison St.	
1	4 "	"	Central Viaduct		S. of Hill St.	
1	4 "	"	"	360	At Huck Ave.	
1	4 "	South	Chard Ave.		At Athey St.	
1	4 "	"	"		At Brig St.	
1	4 "	East	Chestnut Ridge		E. of Scranton Ave.	
1	1 "	South	Clover	240	W. of East View Ave.	
1	4 "	"	"	317	At "	
1	4 "	"	"		E. of Willson Ave.	
1	4 "	North	Cobleigh	105	"	
1	3 "	"	"	342	At Fenton St.	
1	4 "	"	Colfax		At Sharon St.	
1	1 "	South	"		At Franklin Ave.	
C1	3 to 4	East	Courtland			

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Courtland.....	-	At Bridge St.....	
1	4 "	North.....	Conrad.....	160	W. of Higgins St.....	
1	4 "	".....	".....	510	".....	
1	4 "	".....	".....	127	E. of Chestnut Ridge St.....	
1	4 "	".....	Crawford.....	178	E. of Tilden Ave.....	
1	4 "	South.....	Czar.....	38	E. of Colorado St.....	
1	4 "	West.....	Deckard.....		At Colfax St.....	
1	4 "	North.....	Decker.....		At Beaumont St.....	
1	4 "	South.....	Dellenbaugh.....	384	E. of Giddings Ave.....	
1	4 "	".....	".....	722	".....	
1	4 "	".....	".....		At.....	
1	4 "	West.....	Devine.....	372	S. of Bailey St.....	
1	4 "	South.....	Dibble.....	274	W. of Norwood St.....	
1	4 "	".....	".....	601	".....	
1	4 "	East.....	Dickerman.....	299	N. of Port St.....	
1	4 "	".....	".....	8	S. of.....	
1	4 "	".....	".....	14	" Rouse St.....	
1	4 "	".....	Douglas.....	144	" Payne Ave.....	
1	4 "	".....	".....	443	".....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East	Douglas	765	S. of Payne Ave.....	
1	4 "	South.....	Dower	278	E. of Scranton Ave.....	
1	4 "	East	Dorchester.....	334	N. of Euclid Ave.....	
1	4 "	"	"	710	"	
1	4 "	"	"	335	S. of Hough Ave.....	
1	4 "	" .....	" .....	.....	At	
1	4 "	South.....	East Prospect.....	311	W. of Morse Ave.....	
1	4 "	"	"	778	"	
1	4 "	"	"	134	E. of Euclid Place.....	
1	4 "	"	"	139	" Watkins St.....	
1	4 "	"	"	223	" Lincoln Ave.....	
1	4 "	East	East Madison.....	68	N. of Golden St.....	
1	4 "	"	"	209	S. of Cedar Ave.....	
1	4 "	"	Elk	135	N. of Clark Ave.....	
1	4 "	"	"	392	"	
1	4 "	"	"	190	S. of Train St.....	
1	3 "	"	Emmet .....	.....	At South St.....	
1	4 "	North	Ensign.....	431	E. of Willson Ave.....	
1	4 "	South.....	Erin .....	.....	At Pearl St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—*Continued.*

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Erin.....	85	E. of Mill St.....	
1	4 "	East.....	Everett.....	147	S. of Payne Ave.....	
1	4 "	"	"	435	"	
1	4 "	"	"	708	"	
1	4 "	West.....	Fairmount.....	286	N. of Euclid Ave.....	
1	4 "	"	"	566	"	
1	4 "	"	"	828	"	
C1	3 to 4	East.....	Forest.....	19	S. of Garden St.....	
1	4 "	"	"	278	"	
C1	3 to 4	"	"	570	"	
1	4 "	West.....	"	280	N. of Scovill Ave.....	
1	4 "	East.....	"	290	S. of "	
C1	3 to 4	West.....	"	562	N. of Woodland Ave.....	
1	4 "	East.....	"	240	"	
C1	3 to 4	North.....	Franklin.....	130	W. of Taylor St.....	
1	4 "	"	"	105	W. of Root St.....	
1	4 "	South.....	"		At Liberty St.....	
C1	3 to 4	North.....	"	121	E. of Dare St.....	
1	4 "	"	"		At W. L. Dare St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	North	Franklin	160	E. of Scott St.	
1	4 "	"	"	290	W. of Waverly St	
1	4 "	"	"	383	E. of Gordon Ave	
1	4 "	"	"		At	
1	4 "	South	Garden	49	W. of Bertram St.	
1	4 "	"	"	306	E. of East Madison Ave.	
1	4 "	North	Gary	155	E. of Ingleside Ave.	
1	4 "	West	Giddings	239	N. of Platt St.	
1	4 "	North	Gordon Court	220	W. of Gordon Ave.	
1	4 "	"	Grace	194	W. of Chestnut Ridge St.	
1	4 "	"	"	537	"	
1	4 "	South	Gustave Court	246	W. of Pearl St.	
1	4 "	East	Hacker Court	115	N. of Phillips St.	
1	4 "	South	Hamm	223	E. of Petrie St.	
1	4 "	"	"	265	W. of Woerlering St.	
1	4 "	"	"		At	
1	4 "	East	Hamburgh	196	S. of Clark Ave.	
1	4 "	"	"	573	"	
1	4 "	"	"	949	"	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Hamburgh	1,333	S. of Clark Ave.....	
1	4 "	"	Hasard	239	" Superior St.....	
1	4 "	"	"	231	N. of Payne Ave.....	
1	4 "	"	Herald	234	S. of Morton St.....	
1	4 "	"	Hillman	238	N. of Broadway.....	
1	4 "	"	Hollister	195	"	
1	4 "	"	"	484	"	
1	4 "	"	"	224	S. of Track St.....	
1	4 "	"	"		At	
1	4 "	West	Holt	172	N. of Hough Ave.....	
1	4 "	"	"	189	N. of Talbot.....	
1	4 "	South.....	Hough Ave	122	W. of Holt St.....	
1	4 "	"	"	84	E. of	
1	4 "	"	"	383	"	
1	4 "	"	Hough Place.....	200	W. of	
1	4 "	"	"		At	
1	4 "	"	"	338	E. of	
1	4 "	"	House		At Sawtell Ave.....	
1	4 "	"	"	300	W. of	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Hoyt.....	44	N. of L. S. & M. S. R'y.....	
1	4 "	"	"	342	"	
1	4 "	"	"	642	"	
1	4 "	"	"	963	"	
1	4 "	"	Hurlbat ..	299	S. of Payne Ave.....	
1	4 "	"	"	611	"	
1	4 "	North.....	Hudson.....	311	E. of Dean St.....	
1	4 "	West.....	Ingliside ..	159	N. of Euclid Ave.....	
1	4 "	"	"	477	"	
1	4 "	"	"	793	"	
1	4 "	"	"	154	S. of Gary St.....	
1	4 "	"	"	111	N. of "	
1	4 "	East.....	Isabella.....	2773	S. of Clark Ave.....	
1	4 "	South.....	James.....	219	E. of Merwin St.....	
1	4 "	North.....	"	8	"	
1	4 "	East.....	Judson.....	50	N. of Sherman	
1	4 "	"	Kane.....	123	S. of Bailey St.....	
1	4 "	"	"	377	"	
1	4 "	South.....	Lake.....		At Coe St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Lake.....	100	W. of Coe St.....	
C1	3 to 4	"	"		At Case Ave.....	
1	4 "	North.....	"	242	W. of Case Ave.....	
1	4 "	"	"	170	E. of Wason St.....	
1	4 "	"	Lamolle.....		At Berlin St.....	
1	4 "	South.....	Lamont.....	208	E. of North Logan.....	
1	4 "	East.....	Laurel.....		At Scovill Ave.....	
1	4 "	North.....	Lester.....	205	E. of Finn St.....	
1	4 "	East.....	Lewis.....	190	S. of St. Clair St.....	
1	4 "	"	"	512	"	
1	4 "	"	"	427	N. of Bliss Ave.....	
1	4 "	"	"	93	"	
1	4 "	"	Liberty.....	299	" Ravine St.....	
1	4 "	"	"		At	
C1	3 to 4	"	Literary.....		At Central Way.....	
1	4 "	South.....	Luda.....	408	W. of Edwards St.....	
C1	3 to 4	East.....	Longwood.....	12	S. of Scovill Ave.....	
1	4 "	West.....	"	286	"	
C1	3 to 4	"	"	569	"	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Longwood.....	246	N. of Woodland Ave.....	
1	4 "	West	Louis.....	181	S. of Clark Ave.....	
1	4 "	"	"	516	"	
1	4 "	"	"	837	"	
1	4 "	"	"	835	N. of Meyer Ave.....	
1	4 "	"	"		At "	
1	4 "	"	"	308	S. of "	
1	4 "	"	"	6	N. of Sackett St.....	
1	4 "	"	"	227	S. of "	
1	4 "	"	Lisbon.....	731	" Woodland Ave.....	
C1	3 to 4	South.....	Main	110	E. of East River St.....	
1	4 "	East.....	Mayflower.....	19	N. of Orange St.....	
1	4 "	"	Merkel.....		At St. Clair St.....	
1	4 "	"	"	305	N. of "	
1	4 "	"	"	609	"	
1	4 "	"	"	939	"	
1	4 "	"	Middle		At Prospect St.....	
1	4 "	West	"	148	N. of Huron St.....	
1	4 "	"	"	150	E. of Giddings Ave.....	
1	4 "	South.....	Montgomery.....			

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Montgomery.....	178	W. of Parker St.....	
1	4 "	North.....	Newman.....	194	E. of Tod St.....	
1	4 "	"	"	427	"	
1	4 "	East.....	North East.....	30	S. of Colfax St.....	
1	4 "	"	"	34	" Hillside St.....	
1	4 "	"	"	101	" Lena Ave.....	
1	4 "	"	Norwood.....	78	W. of Praha St.....	
1	4 "	"	Nursery.....	9	S. of Braun St.....	
1	4 "	"	"	221	E. of Dean St.....	
1	3 "	South.....	Norman.....	281	N. of Willey St.....	
1	4 "	West.....	Oak Grove.....		At Taylor St.....	
1	4 "	South.....	Old River.....		W. of Taylor St.....	
1	4 "	"	"	255	E. of St. Paul St.....	
1	4 "	"	"	215	At "	
1	4 "	"	"		W. of "	
1	4 "	"	"	273	E. of Weddell St.....	
1	4 "	"	"	229	At "	
1	4 "	"	"		At Hough Ave.....	
1	4 "	East.....	Olive.....		S. of "	
1	4 "	"	"	261		

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Paddock Place.....	220	N. of Woodland Ave.....	
1	4 "	"	Parker.....	215	S. of Garden St	
1	4 "	"	"	93	N. of Montgomery St.....	
1	4 "	"	"	148	N. of Quincy St.....	
1	4 "	South.....	Paris.....	93	E. of Rhodes Ave.....	
1	4 "	"	"	337	"	
1	4 "	East.....	Park Place.....	194	N. of Euclid Ave.....	
1	4 "	"	"	507	"	
1	4 "	"	"	835	"	
1	4 "	"	"	1,148	"	
1	4 "	North	Pearl Court.....	280	E. of Pearl St.....	
1	4 "	West	Petrie	40	S. of Petrie St. bridge ...	
1	4 "	"	"	349	N. of Chard Ave.....	
1	4 "	"	"		At	
1	4 "	East.....	Phillip.....	147	N. of Sawtell Ave	
1	4 "	"	"	136	N. of Hacker Court.....	
1	4 "	"	"		At Praha St.....	
1	4 "	"	Pleasant.....	1,121	S. of Clark Ave.....	
1	4 "	South.....	Quimby.....	253	E. of Willson Ave.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Quimby.....	589	E. of Wilson Ave.....	
1	4 "	"	"	926	"	
1	4 "	"	"	338	W. of Norwood St.....	
1	4 "	"	"	8	"	
1	4 "	West	Randolph.....	301	S. of Dolloff St.....	
1	4 "	East.....	Randall		At Bridge St.....	
1	4 "	"	"	239	S. of	
1	4 "	"	Ranney.....	167	S. of St. Clair St.....	
1	4 "	"	"	484	"	
1	4 "	"	"	272	N. of Bliss St.....	
1	4 "	North	Ravine.....	141	E. of Birch St.....	
1	4 "	East.....	Rhodes.....	151	N. of Paris St.....	
1	4 "	"	"	174	S. of	
1	4 "	West.....	"		At Newark St.....	
1	4 "	"	Russell.....	278	N. of Wade Park Ave.....	
1	4 "	East.....	Rutland.....	231	S. of Kinsman St.....	
1	4 "	"	"	28	N. of Trenton St.....	
1	4 "	West.....	"	164	S. of	
1	4 "	East.....	Sawtoll.....	244	S. of Finn St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Sawtell.....	.....	At S. L. Phillips St.....	
1	4 "	South.....	St. Clair.....	240	W. of Hoyt Ave.....	
1	4 "	West.....	Sayles.....	258	S. of Cedar Ave.....	(Valve was in).
1	4 "	"	"	640	"	
1	4 "	"	"	1,041	"	
1	4 "	East.....	Seedle.....	7	N. of Decker Ave.....	
1	4 "	"	Sheridan.....	219	S. of Francis St.....	
1	4 "	"	"	512	"	
1	4 "	South.....	Sherman.....	230	E. of Judson St.....	
1	4 "	"	"	221	W. of	
1	4 "	"	"	.....	At Lessing St.....	
1	4 "	"	Sibley.....	227	E. of Hayward St.....	
1	4 "	"	"	535	W. of Case Ave.....	
1	4 "	"	"	107	"	
1	4 "	West.....	South Bell.....	1,312	S. of Cedar Ave.....	
1	4 "	"	"	1,675	"	
1	4 "	East.....	Southern.....	712	N. of North Woodland Ave.....	
C1	3 to 4	West.....	Spring.....	380	N. of Superior St.....	
1	4 "	South.....	Stanton.....	232	W. of East Madison Ave.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Stanton.....	285	E. of Judson St.....	
1	4 "	"	"		At	
1	4 "	North	Stone.....	183	W. of Gaskill St.....	
1	4 "	"	"	178	E. of	
1	4 "	West	Swiss	247	N. of Swiss St. bridge.....	
1	4 "	"	"	10	"	
1	4 "	"	Streator	232	S. of Cedar Ave.....	
1	4 "	"	"	609	"	
1	4 "	"	"	958	"	
1	4 "	East.....	Tennyson.....	220	" Woodland Ave.....	
1	4 "	"	"	512	"	
1	4 "	"	"	791	"	
1	4 "	West	Tremont.....	120	" Willey St.....	
1	4 "	East.....	Victor	284	N. of Glazier St.....	
1	4 "	North	Vivian.....		At Devoy St.....	
1	4 "	South.....	"		At Dot St.....	
1	4 "	"	Wade Park Ave.....	256	E. of Beaumont St.....	
1	4 "	"	"	145	W. of	
1	4 "	"	Washington	25	E. of Duane St.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Watkins.....	221	N. of Cedar Ave.....	
1	4 "	"	Weckerling.....	46	N. of Guy St.....	
1	4 "	"	"		At Clay St.....	
1	4 "	"	"	174	N. of Blanche St.....	
1	4 "	West.....	"	36	S. of "	
1	4 "	North.....	Wellesley Place.....	277	W. of Sawtell Ave.....	
1	4 "	"	"		At Beacon St.....	
1	4 "	South.....	West Madison.....		At Gordon Ave.....	
1	4 "	"	"		At City Limits.....	
1	4 "	"	Whitney.....		At Russell Ave.....	
1	4 "	"	Willey.....	194	E. of Merchant Ave.....	
1	4 "	East.....	Wilmar.....	254	S. of Superior St.....	
1	4 "	"	"		At Whitney St.....	
1	4 "	South.....	Willson Place.....		At Willson Ave.....	
1	4 "	"	"	322	E. of "	
1	4 "	"	"	651	"	
1	4 "	"	"	626	W. of Norwood St.....	
1	4 "	"	"	314	"	
1	4 "	"	"		At "	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—*Concluded.*

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
C1	3 to 4	South.....	Woodland Ave.....	.....	At Case Ave.....	.....
1	4 inch.	North .....	" .....	.....	At Bolton Ave.....	.....
1	4 "	"	"	129	W. of Bismark .....	.....
1	4 "	"	"	53	E. of " .....	.....
C1	3 to 4	South.....	" .....	.....	At Laurel.....	.....
328			Total Hydrants.			

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED IN 1888.

Num- ber.	Size taken up.	Size set.	Side.	Street.	Feet.	Location.
1	3 inch.	4 inch.	East.....	Beech.....	200	South of Scovill avenue.
1	3 inch.	4 inch.	East.....	Beech.....	336	North of Woodland avenue.
1	3 inch.	4 inch.	West.....	Broadway.....	115	North of N. Y., P. & O. R'y.
1	3 inch.	4 inch.	East.....	Central Way.....	215	North of Mahoning street.
1	3 inch.	4 inch.	East.....	Courtland.....	.....	At Franklin avenue.
1	3 inch.	4 inch.	East.....	Forest.....	19	South of Garden street, changed from west side of street.
1	3 inch.	4 inch.	East.....	Forest.....	570	South of Garden street.
1	3 inch.	4 inch.	West.....	Forest.....	562	North of Woodland avenue.
1	3 inch.	4 inch.	North.....	Franklin.....	130	West of Taylor street.
1	3 inch.	4 inch.	North.....	Franklin.....	121	East of Dare street.
1	3 inch.	4 inch.	South.....	Lake.....	.....	At Case avenue.
1	3 inch.	4 inch.	East.....	Literary.....	.....	At Central Way.
1	3 inch.	4 inch.	East.....	Longwood.....	12	South of Scovill avenue.
1	3 inch.	4 inch.	West.....	Longwood.....	569	South of Scovill avenue.
1	3 inch.	4 inch.	South.....	Main.....	110	East of East River street.
1	3 inch.	4 inch.	West.....	Spring.....	380	North of Superior street.
1	3 inch.	4 inch.	South.....	Woodland.....	.....	At Case avenue.
1	3 inch.	4 inch.	South.....	Woodland.....	.....	At Laurel street, changed from north side of street.
18	3 inch.	.....	.....	Total taken out.	.....	.....

HYDRANTS MOVED IN 1888.

Num- ber.	Size.	Side.	Street.	Feet.	Location.
1	4 inch.	West.....	Bertram.....	728	South of Cedar avenue, moved from 680 feet south of Cedar avenue.
1	4 inch.	South.....	Ravine.....	17	West of E. L. Dare st., moved from north side 133 ft. west of Birch st.
1	4 inch.	West.....	South Bell.....	981	South of Cedar avenue, moved from 797 feet south of Cedar avenue.
3		Total.			

LOW SERVICE DISTRICT.—CISTERNŚ DISCONNECTED
IN 1888.

Num- ber.	Street.	Location.
1	Belmont street.....	At Croton street.
1	Courtland street.....	At Bridge street.
1	Liberty street.....	At Franklin avenue.
1	Bond street.....	At Superior street.
4	Total.	

RECAPITULATION OF FIRE HYDRANTS FOR 1888.

6 inch Hydrants set in 1888.....	1
4 inch Hydrants set in 1888.....	324
3 inch Hydrants set in 1888.....	3
Total.....	328
Total Hydrants in use December 31, 1887.....	2,338
Total.....	2,666
Hydrants taken out in 1888.....	18
Total Hydrants in use December 31, 1888.....	2,678

Of 2,678 hydrants in use, 94 are 6 inch; the balance are 3 inch and 4 inch.

HIGH SERVICE DISTRICT—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	North.....	Aetna	53	East of Phillips street.....	
1	4 inch.	North.....	"	65	East of Groton street.....	
1	4 inch.	North.....	"	50	East of Macedonia street.....	
1	4 inch.	North.....	"	17	East of Wright street.....	
1	4 inch.	North.....	"	247	West of Wright street	
1	4 inch.	South.....	"		At Wagenan street.....	
1	6 inch.	South.....	"		At Rural street.....	
1	4 inch.	South.....	"	17	West of Stafford street.....	
1	4 inch.	South.....	"		At C. & P. R. R.....	
1	6 inch.	North.....	"		South of Harvard.....	
1	4 inch.	West.....	Bissell	221	At north line Classen street.....	
1	4 inch.	West.....	"		North of Clement street	
1	4 inch.	West.....	"	33	West of Bissell street.....	
1	4 inch.	North.....	Classen.....	363	West of Compton street.....	
1	4 inch.	North.....	"	14	South of Woodland avenue.....	
1	4 inch.	East.....	Corwin.....	60	South of Woodland avenue.....	
1	4 inch.	East.....	"	334	South of Woodland avenue.....	
1	4 inch.	East.....	"	646	South of Woodland avenue.....	
1	4 inch.	East.....	"	980	South of Woodland avenue.....	
1	4 inch.	East.....	"		North of Marble street.....	
1	4 inch.	West.....	Cottage.....	284		

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	West.....	Cottage.....	302	North of Osage street.....	
1	4 inch.	South.....	Covington.....	218	East of Woodland Hills avenue.....	
1	4 inch.	North.....	".....		At Gates street.....	
1	4 inch.	South.....	Finney.....		At east line Graves street.....	
1	4 inch.	South.....	".....		At Eben street.....	
1	4 inch.	South.....	Forman.....	82	West of Ledyard street.....	
1	4 inch.	South.....	".....	255	East of Ashbel avenue.....	
1	4 inch.	South.....	".....		At Ashbel avenue.....	
1	4 inch.	South.....	".....		At Villa street.....	
1	4 inch.	South.....	Huches.....	304	West of Broadway.....	
1	4 inch.	South.....	".....	110	East of Dean alley.....	
1	4 inch.	South.....	".....		At Hooker street.....	
1	4 inch.	West.....	Ledyard.....	250	South of Forman street.....	
1	4 inch.	West.....	McConnell.....		At Covington street.....	
1	4 inch.	South.....	Osage.....		At Cottage street.....	
1	4 inch.	West.....	Reade.....	133	South of Classen street.....	
1	4 inch.	West.....	Spafford.....	184	South of Fullerton street.....	
1	4 inch.	West.....	".....	368	North of Canton street.....	
1	4 inch.	West.....	".....		At Canton street.....	

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	East.....	Spafford.....	187	South of Canton street.....	
1	4 inch.	East.....	".....	222	North of Worley street.....	
1	4 inch.	East.....	".....		At Worley street.....	
1	4 inch.	East.....	".....	315	North of Jones avenue.....	
1	4 inch.	East.....	".....		At Jones avenue.....	
1	4 inch.	West.....	Stark.....	193	North of Cedar avenue.....	
1	4 inch.	South.....	Steinway.....		At Oakdale street.....	
1	4 inch.	North.....	".....	228	East of Oakdale street.....	
1	4 inch.	North.....	".....		At Wamelink street.....	
1	4 inch.	North.....	".....	188	East of Orwig street.....	
1	4 inch.	North.....	".....	65	West of Woodland Hills avenue.....	
1	4 inch.	West.....	Tod.....		At Forman street.....	
1	4 inch.	West.....	".....	31	South of Baxter street.....	
1	4 inch.	West.....	".....		At Omond street.....	
1	4 inch.	South.....	Union.....	310	East of Upton street.....	
1	4 inch.	South.....	".....	104	East of Stafford street.....	
1	4 inch.	South.....	".....	58	East of Rural street.....	
1	4 inch.	South.....	".....	9	East of Wageman street.....	
1	4 inch.	South.....	".....	44	East of Phillips street.....	

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1888.—Continued.

Num- ber.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4 inch.	South.....	Union.....	.....	At Groton street.....	
1	4 inch.	West.....	Valley	206	South of Harvard street.....	
1	4 inch.	West.....	"	239	North of Finney street.....	
1	4 inch.	West.....	Whitehead.....	154	South of Harvard street.....	
1	4 inch.	South.....	Woodland avenue.....	318	West of Woodland Hills avenue.....	
1	4 inch.	South.....	"	146	West of Ambler street.....	
1	4 inch.	North.....	" .....	.....	At McCurdy street.....	
1	4 inch.	South.....	"	147	West of Corwin street.....	
1	4 inch.	West.....	" Hills avenue.....	132	South of Way street.....	
1	6 inch.	West.....	" .....	.....	At Covington street.....	
67			Total hydrants.			

RECAPITULATION OF FIRE HYDRANTS FOR 1888.

6 inch hydrants set in 1888.....	3
4 inch hydrants set in 1888.....	64
Total 6 inch and 4 inch hydrants set in 1888....	67
Total hydrants in use December 31, 1887.....	149
Total in use December 31, 1888.....	216
Of 216 hydrants 18 are 6 inch and 198 are 4 inch.	

HYDRANTS IN USE IN BOTH DISTRICTS, DEC. 31, 1888.

In Low Service District.....	2,678
In High Service District.....	216
Total.....	2,894

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	36 inch.	West side Pumping station, north building		On discharge pipe of east Knowles engine.....	
1	36 inch.	West side Pumping station, north building		On discharge pipe of west Knowles engine.....	
2		Total.			
1	30 inch.	McBride.....	North..	West line Willson avenue.....	
1	30 inch.	McBride.....	North..	West line Broadway.....	
1	30 inch.	Willson.....	East...	South line Kinsman street.....	
1	30 inch.	Willson.....	East...	South line Diamond Park.....	
1	30 inch.	Willson.....	East...	South line Francis street.....	
5	30 inch.	Total.			
1	12 inch.	Broadway.....		8 feet, 9 inches east of west line McBride street and 28 feet, 3 inches north of south line Broadway.....	Connection valve.
1	12 inch.	Francis.....	South..	East line Willson avenue.....	
1	12 inch.	Francis.....		14 feet, 10 inches east of Willson avenue, 28 feet, 6 inches south of north line Francis street.....	Connection valve.
1	12 inch.	McBride.....		2 ft., 6 in. W. of McBride St. and 28 ft., 9 in. S. of N. L. Broadway	Connection valve.
1	12 inch.	Rhodes.....	East...	North line Newark street.....	Connection valve.

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	12 inch.	Willson.....	West.....	North line Broadway.....	
1	12 inch.	Willson.....	West.....	South line McBride street.....	
1	12 inch.	Willson.....	West.....	14 feet, 9 inches east of west line Willson avenue and 15 feet, 3 inches south of north line McBride street.....	Connection valve.
1	12 inch.	Woodland.....		34 feet west of east line Willson avenue and 24 feet, 6 inches north of south line Woodland avenue.....	Connection valve.
1	12 inch.	Woodland.....	South.....	East line Willson avenue.....	
1	12 inch.	Woodland.....	South.....	23 feet west of east line Willson avenue and 14 feet north of south line Woodland avenue.....	Connection valve on 30x12 inch T.
11	12 inch.	Total.			
1	10 inch.	Franklin.....	North.....	East line Gordon avenue.....	
1	8 inch.	Cass avenue.....	East.....	North line Lake street.....	
1	8 inch.	East Prospect.....	South.....	West line Morse avenue.....	
1	8 inch.	East Prospect.....	South.....	East line Euclid place.....	
1	8 inch.	East Prospect.....	South.....	West line East Madison avenue.....	
1	8 inch.	East Prospect.....	South.....	East line Lincoln avenue.....	
1	8 inch.	East Madison.....	East.....	North line Garden street.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	8 inch.	East Madison.....	East...	South line Cedar avenue.....	
1	8 inch.	Garden	South..	East line Lincoln avenue.....	
1	8 inch.	Gordon	East...	South line West Madison avenue.....	
1	8 inch.	Hough.....	South..	East line Holt street.....	
1	8 inch.	Lake.....	South..	East line Coe street.....	
1	8 inch.	Lake.....	South..	West line Kirtland street.....	
C 1	4 to 8 in.	Lake.....	North..	West line Case avenue.....	
C 1	4 to 8 in.	Lake.....	North..	East line Wason street.....	
1	8 inch.	Lake.....	North..	West line Wason street.....	
1	8 inch.	McBride.....	East...	South line Broadway.....	
1	8 inch.	Old River.....	South..	West line Taylor street.....	
1	8 inch.	Old River.....	South..	West line St. Paul street.....	
1	8 inch.	Old River.....	South..	West line Weddell street.....	
1	8 inch.	Randall.....	East...	South line Bridge street.....	
C 1	6 to 8 in.	Wason.....	West...	North line Lake street.....	
1	8 inch.	West Madison	South..	West line Gordon avenue.....	
1	8 inch.	West Madison	South..	3 feet, 6 inches east of city limits.....	
1	8 inch.	Woodland	North..	East line Tennyson street.....	

LOW SERVICE DISTRICT.-SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.-Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	8 inch.	Woodland	North.	East line Bismark street.....	
25	8 inch.	Total.			
1	6 inch.	Amos	South.	East line East Madison avenue.....	
1	6 inch.	Amos	South.	West line Edwards street.....	
1	6 inch.	Barkwill	North.	East line Glenroy street.....	
1	6 inch.	Beaumont	East....	South line Decker avenue.....	
1	6 inch.	Beaumont	East....	North line Wade Park avenue.....	
1	6 inch.	Bergen.....	East....	North line Clark avenue.....	
1	6 inch.	Bergen.....	East....	South line Train street.....	
1	6 inch.	Bertram	West....	South line Garden street.....	
C 1	4 to 6 in.	Belmont	West....	North line Croton street.....	
1	6 inch.	Bliss.....	East....	South line St. Clair street.....	
1	6 inch.	Bliss.....	East....	North line Bliss avenue.....	
1	6 inch.	Bliss.....	South.	West line Lewis avenue.....	
1	6 inch.	Brayton.....	South.	East line Fruit alley.....	
1	6 inch.	Brig	South.	East line Chestnut Ridge street.....	
1	6 inch.	Brig	East....	North line Colgate street.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Brighton.....	West..	689 feet south of Clark avenue, at a hydrant.	
1	6 inch.	Brainard.....	South..	East line Soranton avenue.....	
1	6 inch.	Brainard.....	South..	West line East View avenue.....	
1	6 inch.	Brooklyn.....	West..	South line Sackett street.....	
1	6 inch.	Buhrer.....	South..	West line Merchant avenue.....	
1	6 inch.	Cable.....	East....	North line Broadway.....	
1	6 inch.	Cedar.....	South..	East line Kennard street.....	
1	6 inch.	Central Viaduct.....	South..	West line Harrison street.....	
1	6 inch.	Chard avenue.....	South..	West line Petrie street.....	
1	6 inch.	Chestnut Ridge.....	East....	South line Lawn street.....	
1	6 inch.	Clover.....	South..	East line Soranton avenue.....	
1	6 inch.	Cologne.....	West..	South line Lamolle street.....	
1	6 inch.	Colfax.....	South..	East line Deckard street.....	
1	6 inch.	Conrad.....	North..	West line Higgins street.....	
1	6 inch.	Conrad.....	North..	East line Chestnut Ridge street.....	
1	6 inch.	Decker.....	South..	East line Seidle avenue.....	
1	6 inch.	Dellenbaugh.....	South..	East line Gliddings avenue.....	
1	6 inch.	Devine.....	West....	South line Bailey street.....	
1	6 inch.	Dibble.....	South..	West line Norwood street.....	

LOW SERVICE DISTRICT.-SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.-Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Dibble.....	South..	3rd hydrant 916 feet west of Norwood.....	
1	6 inch.	Dickerman.....	East....	South line Rouse street.....	
1	6 inch.	Dower.....	South..	East line Soranton avenue.....	
1	6 inch.	Douglas.....	East....	South line Payne avenue.....	
1	6 inch.	Dorchester.....	East....	North line Euclid avenue.....	
1	6 inch.	Dorchester.....	East....	At 2nd hydrant 710 feet North of Euclid avenue.....	
1	6 inch.	Edmunds.....	South..	East line Holt street.....	
1	6 inch.	Elk.....	East....	North line Clark avenue.....	
1	6 inch.	Ennnett.....	West..	South line Marquardt street.....	
1	6 inch.	Ennnett.....	West..	North line Marquardt street.....	
1	6 inch.	Everett.....	East....	South line Payne avenue.....	
1	6 inch.	Finn.....	South..	West line Sawtell avenue.....	
1	6 inch.	Gary.....	North..	East line Ingleside avenue.....	
1	6 inch.	Giddings avenue.....	West..	North line Platt street.....	
1	6 inch.	Grace.....	North..	West line Chestnut Ridge street.....	
1	6 inch.	Hamm.....	South..	East line Petrie street.....	
1	6 inch.	Hamm.....	South..	West line Weckerling street.....	
1	6 inch.	Hamm.....	East....	South line Broadway.....	
1	6 inch.	Hamburgh.....	East....	South line Clark avenue.....	

LOW SERVICE DISTRICT.-SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.-Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Hazard.....	East.....	North line Payne avenue.....	
1	6 inch.	Herrman.....	South.....	East line St. Paul street.....	
1	6 inch.	Herald.....	East.....	South line Wagner street.....	
1	6 inch.	Hollister.....	East.....	North line Broadway.....	
1	6 inch.	Hollister.....	East.....	South line Track street.....	
1	6 inch.	Holt.....	West.....	North line Hough avenue.....	
1	6 inch.	Holt.....	West.....	North line Talbot street.....	
1	6 inch.	Holt.....	East.....	South line Hough avenue.....	
1	6 inch.	Hough place.....	South.....	West line Holt street.....	
1	6 inch.	Hough place.....	South.....	East line Holt street.....	
1	6 inch.	House.....	South.....	West line Sawtell avenue.....	
1	6 inch.	Hoyt.....	East.....	South line of L. S. & M. S. Ry.....	
1	6 inch.	Hurlbut.....	East.....	South line Payne avenue.....	
1	6 inch.	Hudson.....	North.....	East line Doan street.....	
1	6 inch.	Ingliside avenue.....	West.....	North line Euclid avenue.....	
1	6 inch.	Jarvis.....	North.....	East line Morwin street.....	
1	6 inch.	Jefferson.....	North.....	East line University street.....	
1	6 inch.	Judson.....	East.....	South line Quincy street.....	
1	6 inch.	Kane.....	East.....	South line Bailey street.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Lanont.....	South.....	East line North Logan street.....	
1	6 inch.	Lena.....	South.....	West line Norwood street.....	
1	6 inch.	Lester.....	North.....	East line Finn street.....	
1	6 inch.	Lewis.....	East.....	North line Bliss avenue.....	
1	6 inch.	Lewis.....	East.....	South line St. Clair street.....	
1	6 inch.	Liberty.....	East.....	North line Ravine street.....	
1	6 inch.	Lucia.....	South.....	West line Edwards street.....	
1	5 inch.	Louis.....	West.....	South line Clark avenue.....	
1	6 inch.	Louis.....	West.....	857 feet south of Clark avenue at 3rd hydrant.....	
1	6 inch.	Louis.....	West.....	South line Meyers avenue.....	
1	6 inch.	Louis.....	West.....	South line Sackett's street.....	
1	6 inch.	Mead.....	East.....	South line Track street.....	
1	6 inch.	Merchant.....	West.....	South line Rowley street.....	
1	6 inch.	Merkel.....	East.....	North line St. Clair street.....	
1	6 inch.	Middle.....	West.....	South line Prospect street.....	
1	6 inch.	Middle.....	West.....	North line High street.....	
1	6 inch.	Middle.....	West.....	South line High street.....	
1	6 inch.	Montgomery.....	South.....	East line Gindings avenue.....	
1	6 inch.	Montgomery.....	South.....	West line Parker street.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Mumford place.....	East....	North line Broadway.....	
1	6 inch.	Norman.....	South....	East line Doan street.....	
1	6 inch.	Olive.....	East....	South line Hough avenue.....	
1	6 inch.	Parker.....	East....	South line Garden street.....	
1	8 inch.	Parker.....	East....	North line Quincy street.....	
1	6 inch.	Park place.....	East....	North line Euclid avenue.....	
1	6 inch.	Park place.....	East....	835 feet north of Euclid avenue at 3rd hydrant.....	
1	6 inch.	Petrie.....	West....	44 feet south of Petrie street bridge.....	
1	6 inch.	Petrie.....	West....	North line Chard avenue.....	
1	6 inch.	Phillip.....	East....	West line Sawtell avenue.....	
1	6 inch.	Phillip.....	East....	South line Praha street.....	
1	8 inch.	Pleasant.....	East....	6 feet, 8 inches south of hydrant at Woolen Mill.....	
1	6 inch.	Praha.....	South....	East line Nursery street.....	
1	6 inch.	Quimby.....	South....	East line Willson avenue.....	
1	6 inch.	Quimby.....	South....	West line alley between Willson avenue and Norwood street.....	
1	8 inch.	Randolph.....	West....	South line Doloff street.....	
1	6 inch.	Randolph.....	West....	North line Blanche street.....	
1	6 inch.	Ranney.....	East....	South line St. Clair street.....	
1	6 inch.	Ranney.....	East....	North line Bliss avenue.....	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Ravine	North.	West line Liberty street.	
1	6 inch.	Rowley	South.	West line Merchant avenue.	
1	6 inch.	Russell	West.	North line Wade Park avenue.	
1	6 inch.	Rutland	East.	South line Trenton street.	
1	6 inch.	Sayles	West.	South line Cedar avenue.	
1	6 inch.	Sayles	West.	South line 1st alley south of Cedar avenue.	
1	6 inch.	Second	East.	South line Fourth avenue.	
1	6 inch.	Scottle	East.	South line Star avenue.	
1	6 inch.	Sheridan	East.	South line Francis street.	
1	6 inch.	Sherman	South.	East line Judson street.	
1	6 inch.	Sherman	South.	West line Judson street.	
1	6 inch.	South Bell	West.	South side of hydrant 961 feet south of Cedar avenue.	
1	6 inch.	Stanton	South.	West line East Madison avenue.	
1	6 inch.	Stone	South.	West line Weddell street.	
1	6 inch.	Stone	East.	East line Weddell street.	
1	6 inch.	Tenneyton	East.	South line Woodland avenue.	
1	6 inch.	Tyngent	West.	North line Jefferson street.	
1	6 inch.	Victor	East.	North line Glazier street.	
1	6 inch.	Vivian	North.	West line Ballou street.	

LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Washington.....	South.....	West line State street.....	
1	6 inch.	Watkins.....	East.....	South line East Prospect street.....	
1	6 inch.	Weckerling.....	East.....	South line Hamm street.....	
1	6 inch.	Weckerling.....	East.....	South line Clay street.....	
1	6 inch.	Walcley place.....	North.....	West line Sawtell avenue.....	
1	6 inch.	Willey.....	South.....	East line Merchant avenue.....	
1	6 inch.	Wilmar.....	East.....	South line Superior street.....	
1	6 inch.	Wilmar.....	East.....	North line Whitney street.....	
1	6 inch.	Willson place.....	South.....	East line Willson avenue.....	
1	6 inch.	Willson place.....	South.....	East line of alley between Willson avenue and Norwood street.....	
1	6 inch.	Zoeber.....	South.....	West line Oldings avenue.....	
1	6 inch.	For Hydrants.....			
141	6 inch.	Total.....			
1	4 inch.	East place.....	South.....	West line Pearl street.....	
1	4 inch.	Caleb court.....	South.....	East line Barkwill street.....	
1	4 inch.	Gordon court.....	North.....	West line Gordon avenue.....	
1	4 inch.	Gustave court.....	South.....	West line Pearl street.....	

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LOW SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	4 inch.	Hacker court.....	South..	East line Phillip street.....	
1	4 inch.	Paddock place.....	East....	North line Woodland avenue.....	
1	4 inch.	Paddock place.....	East....	South line Outhwaite avenue.....	
1	4 inch.	Paris street.....	South..	East line Rhodes avenue.....	
1	4 inch.	Pearl court.....	South..	East line Pearl street.....	
323	4 inch.	For Hydrants.....			
332	4 inch.	Total.			
1	3 inch.	Oak Grove.....	West....	North line Willey street.....	
1	3 inch.	Sawtell alley.....	East....	South line Outhwaite avenue.....	
3	3 inch.	For Hydrants.....			
5	3 inch.	Total.			

1 6 inch Stop Gate taken out from cistern connections.

1 6 inch Stop Gate taken out on Case avenue at north line Lake street on the west.

3 4 inch Stop Gates taken out from cistern connections.

19 3 inch Stop Gates taken out from hydrants and cistern connections.

RECAPITULATION OF STOP GATES FOR 1888.

Water-Way in inches.	Total.															
	36	30	24	20	16	12	10	8	6	4	3					
In use previous to 1888.....	10	36	11	19	23	40	114	432	1,468	2,352	131					
Set in 1888.....	2	5				11	1	25	141	332	5					
Total.....	12	41	11	19	23	51	115	457	1,609	2,684	156					
Taken out in 1888.....									3	6	19					
Total in use December 31, 1888.....	12	41	11	19	23	51	115	457	1,606	2,678	137					

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	10 inch.	Aetna	South.	West line Stafford street.....	
1	10 "	Union	"	East line	
1	10 "	Woodland Hills avenue.....	West.	South line Woodland avenue.....	
1	10 "	"	"	" Way street.....	
4	10 inch.	Total.			
1	8 "	Tod	West.	North line Forman street.....	
1	8 "	Woodland	South.	West line Woodland Hills avenue	
1	8 "	"	"	" Ambler street	
1	8 "	"	"	" Corwin avenue.....	
1	8 "	" Hills avenue	West.	South line Miles avenue	
5	8 inch.	Total.			
1	6 "	Aetna	North.	West line Axtell street	
1	6 "	"	"	" Croton street	
1	6 "	"	"	" Wright street.....	
1	6 "	Bisell.....	West.	South line Harvard street	
1	6 "	"	"	" Clasen street.....	

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—Continued.

Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Classen	North.	West line Bissell street.....	
1	6 "	"	" "	" Reade street.....	
1	6 "	Corwin	East ..	South line Woodland avenue	
1	6 "	Cottage	West..	North line Marble street.....	
1	6 "	"	"	South line Osgo street	
1	6 "	"	"	North line	
1	6 "	Corvington	South..	East line Woodland Hills avenue.....	
1	6 "	"	"	West line McConnell street.....	
1	6 "	Finney	"	East line Valley street.....	
1	6 "	Forman	"	West line Ashbel avenue	
1	6 "	"	"	East line Tod street.....	
1	6 "	Hughes	"	" Hooker street	
1	6 "	Ledyard	West..	South line Forman street.....	
1	6 "	McConnell.....	"	" Miles avenue.....	
1	6 "	Reade	"	" Classen street.....	
1	6 "	Spafford	"	" Fullerton street.....	
1	6 "	"	"	" Canton street.....	
1	6 "	"	East..	" Worley street.....	
1	6 "	Stark	"	North line Cedar avenue	

HIGH SERVICE DISTRICT.—SCHEDULE, SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1888.—*Continued*

REPORT OF WATER WORKS DEPARTMENT.

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Num- ber.	Size.	Street.	Side.	Location.	Remarks.
1	6 inch.	Steinway	North.	East line Woodland avenue.....	
1	6 "	"	"	West line Orwig street.....	
1	6 "	Valley	West..	North line Finney street	
3	6 "	For hydrants.....			
30	6 inch.	Total.			
64	4 "	For hydrants.....			

RECAPITULATION OF STOP GATES FOR 1888.

Water-way in inches.	36	30	24	20	16	12	10	8	6	4	3	Total.
Reported previous to 1888.....		8	1	8	10	30	30	23	65	143	.....	318
Set in 1888.....							4	5	30	61	.....	103
Total in use December 31, 1888.....		8	1	8	10	30	34	28	95	207	.....	421

STOP GATES IN USE IN BOTH DISTRICTS DEC. 31, 1888.

In Low Service District.....	5,170
In High Service District.....	421
Total in both Districts.....	5,591

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.

JANUARY.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Rainmount Reservoir.	Total.
Pay rolls	General expense			234 65				209 50		100 00				2844 15
"	Engine house				1946 32		352 00							* 2263 32
"	Pipe extens'n, etc.	149 61	293 75	210 29					275 57					934 22
John Averill	Towing			5 00										5 00
W. Bingham & Co.	Shovels, taps, etc.	14 70	60	1 81	13 68		11 41		2 10		40			44 70
Brooks & Co.	Stationery			3 81										3 81
Brooks Building Co.	Meter boxes			25 21					5 50					30 71
Wm. Cain	Medicine	2 07												2 07
Cleveland Gas Co.	Gas			21 30										21 30
Cleveland Telephone Co.	Telephone service		16 00	16 00	16 00									48 00
Andrew Doll, Jr.	Mason work									115 20				115 20
East Cleveland R. R. Co.	Car tickets			50 00										50 00
Fisher & Wilson	Lumber	2 88							9 14					12 02
E. W. Gibbs, Mgr	Use of horse							55 50						55 50

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JANUARY.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and (General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Fairmount Reservoir.	Total.
Globe Iron Works.....	Blacksmithing.....					20 78								20 78
Herron Bros.....	Manure.....		43 75											43 75
Jacob Hoffman.....	Repairing wagon.....		25 70											25 70
Dr. W. W. Holliday.....	Medical services.....	10 50												10 50
T. Ingraham.....	Cotton waste.....				47 69									47 69
E. H. Jones & Co.....	Meter screws.....								3 00					3 00
Kelley Island Lime Co.....	Line.....					1 50								1 50
Kennedy, DeForest P. & Co.....	Plumbing.....		4 72											4 72
Lake Shore Foundry.....	Pipe.....	385 31												385 31
Lord, Bowler & Co.....	Valves.....	59 40												59 40
W. A. Madison, Sec'y.....	Cash advanced.....			20 41										20 41
T. Manning, Jr., & Co.....	Blacksmithing.....	1 46	5 59					8 33	19 53					34 91
Merriam, Morgan P. Co.....	Oil.....				34 61									34 61
National Meter Co.....	14 in. crown met'r.....								302 00					302 00

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
JANUARY.

REPORT OF WATER WORKS DEPARTMENT.

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Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Furnaces.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Refrigerator.	Total.
Julia D. Tuttle.....	Right of way.....	500 00												500 00
A. T. Van Tassel & Co.....	Sundries.....				14 66									14 66
Variety Iron Works.....	Estim. tun. shaft.										504 56			504 56
"	"													
"	Estimate boilers.									1180 30				1180 30
West Newton Mines.....	Coal.....			1913 49										1913 49
Worswick Mfg. Co.....	Plumbing fixtures								11 61					11 61

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

FEBRUARY.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Fairmount Reservoir.	Total.
Pay roll	Labor			2332 15				202 50		100 00				2334 65
"	"				1665 16		352 00							2347 16
"	"	345 81	283 39						233 33					862 53
Auld & Conger	Mantel			35 00										35 00
W. Bingham & Co.	Packing, etc.	4 25		5 00	25				3 84					13 34
(Geo. F. Blake Mfg. Co.	Acc't pump'g eng.									15800 00				15800 00
F. & H. Born	Repairing pump.													3 24
Chas. H. Burton	Machine work		3 24											12 42
Cleveland Fire Dep't.	Telephone service			28 67		12 42								28 67
" Gas Co.	Gas			20 00										20 00
" Telephone Co.	Rent of tel'phones			5 00										5 00
A. Doll, Jr.	Vault			690 00										690 00
The Diebolt Safe & Lock Co.	Fire-proof door.			210 00										210 00
Farnan's Brass Works	Plumbing goods		7 56			6 47								14 03

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
FEBRUARY.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Petrols.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Justus Roe & Sons.....	Steel tape.....										7 00			7 00
Rhodes, Beidler & Co.....	Coal.....		10 00	10 85										20 85
J. B. Savage.....	Printing.....			9 00							65 00			74 00
F. E. Sealand.....	Teaming.....			52 00	10 00									62 00
W. P. Southworth.....	Brooms.....			1 79										1 79
A. W. Smith.....	Analysis of water.....			544 00										544 00
Strong, Cobb & Co.....	Lard oil.....		80											80
A. F. & H. Strater.....	Plumbing work.....		4 50											4 50
W. Taylor & Son.....	Towels.....			2 75										2 75
The West Newton mines.....	Coal.....				2571 52									2571 52
Variety Iron Works.....	Cylinder estimate.....										503 03			503 03
Worswick Mfg. Co.....	Plumber fittings.....										85 18			85 18
H. R. Worthington.....	Water meters.....								311 04					311 04

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

MARCH.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Furnaces.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Pay rolls	Labor, etc.....	209 75	413 01	2253 82	1781 90	.....	352 00	215 33	280 28	.....	100 00	.....	.....	5586 69
A. Adams.....	Horse shoes, etc..	.....	6 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6 50
C. H. Burton.....	Machine work....	.....	.....	.....	.....	32 98	.....	.....	.....	.....	.....	.....	.....	32 98
Am. Engineer Pub. Co.....	Advertising.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7 50
W. Bingham & Co.....	Hardware.....	65	.....	1 40	.....	.....	.....	28	1 25	.....	7 50	.....	.....	3 56
Bohm & Stuhr.....	Walnut lumber....	.....	.....	12 96	.....	.....	.....	.....	.....	.....	.....	.....	.....	12 96
Brooks Building Co.....	Meter boxes, etc..	.....	.....	7 53	.....	.....	.....	.....	5 50	.....	.....	.....	.....	13 03
J. B. Campbell.....	Joiner work.....	.....	.....	252 90	.....	.....	.....	.....	.....	.....	.....	.....	.....	252 90
City of Cleveland.....	Paving repairs....	1 53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 53
Geo. Cooper & Co.....	Canvas duck.....	.....	1 65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 65
Clement Bros.....	Cement.....	.....	.....	.....	.....	8 50	.....	.....	8 50	.....	.....	.....	.....	17 00
Cleveland Paper Co.....	Wrapping paper....	.....	.....	70	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
Conger Collins Mantel Co.....	Gas fixtures.....	.....	.....	167 75	.....	.....	.....	.....	.....	.....	.....	.....	.....	167 75
W. C. Cowin.....	Wall paper & w'k..	.....	.....	163 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	163 00

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

MARCH.

REPORT OF WATER WORKS DEPARTMENT.

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REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

MARCH.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Sterling & Co.....	Carpets, etc.....	.....	.....	174 05	.....	.....	.....	.....	.....	.....	.....	.....	.....	174 05
Strong, Cobb & Co.....	Soap, etc.....	.....	6 71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6 71
J. Thompson.....	Steam fitting.....	.....	.....	.....	.....	65 59	.....	.....	.....	.....	.....	.....	.....	65 59
W. S. Tyler Wire Works.....	Railing.....	.....	.....	24 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	24 25
Upson, Walton & Co.....	Spike.....	.....	2 91	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 91
Variety Iron Works Co.....	Boiler work.....	.....	.....	.....	.....	25 45	.....	.....	.....	.....	.....	.....	.....	25 45
" " ".....	Estimate.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2244 00	.....	.....	2244 00
West Newton Mines.....	Coal.....	.....	.....	.....	2162 16	.....	51 21	.....	.....	.....	.....	.....	.....	2213 37
Worswick Mfg. Co.....	Plumbers' goods.....	.....	.....	.....	.....	.....	.....	.....	12 77	.....	.....	.....	.....	12 77

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

APRIL.

REPORT OF WATER WORKS DEPARTMENT.

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ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888. — *Continued.*

APRIL.

Bills Rendered by	For	Pipe Extension.	(General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Clements Bros.....	Cement.....	.....	.....	.....	.....	.....	.....	.....	17 00	.....	.....	.....	.....	17 00
Jas. B. Clow & Son.....	Furnace.....	45 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45 00
Cross Bros. & Co.....	Manhole rings, etc.....	.....	.....	.....	.....	.....	.....	.....	24 00	.....	.....	.....	.....	24 00
Andrew Doll, Jr.....	Mason work.....	.....	.....	72 65	.....	.....	.....	.....	.....	.....	.....	.....	.....	72 65
J. Denne.....	Carpenter work.....	.....	.....	.....	.....	31 24	.....	.....	.....	.....	.....	.....	.....	31 24
R. Doty.....	Services.....	.....	.....	.....	333 32	.....	.....	.....	.....	.....	.....	.....	.....	333 32
Dewstoe & Schneider.....	Plumbing.....	.....	.....	228 34	394 31	.....	.....	.....	.....	.....	.....	.....	.....	532 65
T. Elwood & Son.....	Livery.....	.....	.....	28 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	28 00
Farnan's Brass Works.....	Stop cocks, etc.....	.....	.....	.....	.....	.....	.....	1006 75	.....	.....	.....	.....	.....	1006 75
Globe Iron Works.....	Machinery rep'r's.....	.....	.....	.....	.....	70 35	.....	.....	.....	.....	.....	.....	.....	70 55
Gawne & Son.....	Estimate.....	.....	.....	.....	.....	.....	.....	.....	.....	217 00	.....	.....	.....	217 00
Gibson & Price.....	Lead.....	893 34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	893 34
Grant Iron Works.....	Clamps.....	45 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45 00
Hugh Harrison.....	Brick.....	.....	.....	.....	.....	.....	.....	.....	53 70	.....	.....	.....	.....	53 70

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
APRIL.

Bills Rendered by	For	Pipe Extension.	(General Repairs.	Office and (General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
H. M. Hempy & Son	Plugs .....	.....	17 05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17 05
J. Hoffman.....	Wagon repairs.....	.....	4 85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4 85
Ingham, Clark & Co.....	Ohio lava.....	.....	.....	12 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	12 00
T. Ingraham.....	Jute packing.....	78 05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	78 05
E. H. Jones & Co.....	Water meters.....	.....	.....	.....	.....	.....	.....	.....	627 60	.....	.....	.....	.....	627 60
W. Kenney.....	File box .....	.....	.....	2 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 25
Lake Shore Foundry ..	Pipe	167 15 72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	167 15 72
Lord, Bowler & Co.....	Valves.....	1157 93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1157 98
W. A. Madison, Sec'y.....	Incidental exp's.....	38 82	.....	208 89	.....	.....	.....	.....	4 40	.....	.....	.....	.....	252 11
T. Manning, Jr., & Co.....	Blacksmithing ...	63 19	31 59	.....	.....	.....	.....	.....	4 30	.....	.....	.....	.....	99 08
Macbeth & Co.....	Meter ring.....	.....	.....	.....	.....	.....	.....	.....	3 75	.....	.....	.....	.....	3 75
Merian, Morgan P. Co.....	Oil.....	.....	.....	.....	38 07	.....	.....	.....	.....	.....	.....	.....	.....	38 07
National Meter Co.....	Meter.....	.....	.....	.....	.....	.....	.....	.....	151 50	.....	.....	.....	.....	151 50
P. O'Brien.....	Oil, etc.....	.....	2 35	.....	.....	.....	.....	.....	80	.....	.....	.....	.....	3 15

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

APRIL.

[illegible]

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
APRIL.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Variety Iron Works.....	Estimate.....	.....	.....	.....	.....	.....	7 73	.....	.....	.....	1860 65	.....	.....	1860 65
Ward & Jackson.....	Blacksmithing.....	.....	.....	.....	.....	.....	57 19	.....	.....	.....	.....	.....	.....	7 73
West Newton Mines.....	Coal .....	.....	.....	.....	1867 95	.....	.....	.....	.....	.....	.....	.....	.....	2015 14
R. D. Wood & Co.....	Hydrants	1141 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1141 00
Worswick Mfg. Co.....	Plumbing.....	.....	8 52	.....	.....	.....	.....	.....	19 13	.....	.....	.....	.....	27 65

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
MAY.

REPORT OF WATER WORKS DEPARTMENT.

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Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Fertiles.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Fairmount Reservoir.	Total.
Cleveland Print. & Pub.Co	Annual reports ..			562 21										562 21
Coffin Value Co.....	Valves	1800 00												1800 00
Cross Bros. & Co.....	Manholes.....								61 92					61 92
J. Denne.....	Carpenter work..									42 55				42 55
East Cleveland R. R. Co..	Car tickets.....	25 00		25 00				1534 36						50 00
Farnan's Brass Works....	Stop cock boxes..									543 00				543 00
J. Gawne & Son.....	Estimate.....									90 32				90 32
J. Gawne & Son.....	Mason work.....													768 49
Gibson & Price.....	Pig lead.....	768 49												768 49
Grant Iron Works.....	Blacksmithing....	75 00												75 00
Hugh Harrison.....	Brick.....								78 83					78 83
H. M. Hempy & Son.....	Wood plugs.....	49 00												49 00
Howe Scale Co.....	Scale.....	50 00												50 00
John Ingraham.....	Erecting cylind'rs									320 06				320 06
E. H. Jones & Co.....	Meters.....								799 22					799 22

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
MAY.

REPORT OF WATER WORKS DEPARTMENT.

813

[illegible]

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JUNE.

REPORT OF WATER WORKS DEPARTMENT.

815

[illegible]

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JUNE.

[illegible]

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JUNE.

REPORT OF WATER WORKS DEPARTMENT.

817

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Sherburne & Noonan.....	Team and coach.....	.....	.....	3 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	3 00
L. P. & J. A. Smith.....	Tug.....	.....	.....	15 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	15 00
W. P. Southworth.....	Soap.....	.....	.....	1 82	.....	.....	3 95	.....	.....	.....	.....	.....	.....	5 27
Strong, Cobb & Co.....	Oil.....	.....	.....	.....	.....	.....	.....	.....	85	.....	.....	.....	.....	85
J. Thompson.....	Steam fittings.....	.....	.....	.....	.....	54 10	.....	.....	.....	.....	.....	.....	.....	54 10
E. W. Tyler.....	Pump.....	.....	75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
Upton, Walton & Co.....	Paint and oils.....	7 29	.....	2 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	9 29
A. T. Van Tassel & Co.....	Hardware.....	.....	.....	.....	9 68	.....	.....	.....	.....	.....	.....	.....	.....	9 68
Variety Iron Works.....	Boiler work.....	.....	.....	.....	.....	.....	.....	.....	.....	688 09	.....	.....	.....	688 09
West Newton Mines.....	Coal.....	.....	.....	.....	1485 22	.....	35 36	.....	.....	.....	.....	.....	.....	1520 58
G. W. Wheeler.....	Chisels.....	.....	4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4 20
R. D. Wood & Co.....	Hydrants.....	1044 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1044 00
H. R. Worthington.....	Springs.....	.....	.....	.....	.....	17 85	.....	.....	.....	.....	.....	.....	.....	17 85
Worswick Mfg Co.....	Fittings.....	.....	.....	.....	.....	.....	.....	.....	96 91	.....	.....	.....	.....	96 91

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JULY.

REPORT OF WATER WORKS DEPARTMENT.

819

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Evan Bros. & Co.....	Stair.....		3 00											3 00
Fairbanks, Morse & Co.....	Scale.....	13 10												13 10
Farnan's Brass Works.....	Ferrules, etc.....							883 07						883 07
Forest City Wire Works.....	Screens.....			83 90					1 25					83 90
W. H. Gabriel.....	Blacksmithing.....	68 57	7 10											77 02
Gibson & Price.....	Lead.....	1384 56												1384 56
Globe Iron Works.....	Machine work.....				113 67									113 67
H. M. Hempy.....	Plugs.....	37 80												37 80
J. Ingram.....	Pipe laying.....	240 50												240 50
T. Ingraham.....	Waste.....				63 43									63 43
E. H. Jones & Co.....	Meters.....								1014 83					1014 83
Kennedy, Deforest, P. & Co.	Repair feed pipe.					7 01								7 01
Lake Shore Foundry.....	Pipe.....	13475 49												13475 49
S. Law.....	Boat hire.....		3 00											3 00
W. G. LePelly.....	Carpenter work.....									140 00				140 00

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

JULY.

REPORT OF WATER WORKS DEPARTMENT.

821

Bills rendered by	For	Pipe Extension.	(General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Railroad Equipment.	Total.
L. P. & J. A. Smith	Towing			8 00										8 00
W. P. Southworth	Soap	3 10			3 95									7 05
Star Lubricating Oil W'ks	Boiler compound				17 99									17 99
Sturtevant Lumber Co.	Lumber								7 40					7 40
J. Thompson ..	Steam fittings					231 35								231 35
Upson & Walton	Rope	6 99	1 10											8 09
A. T. Van Tassel & Co.	Hardware				1 45									1 45
Variety Iron Works	Boiler work									37 41				37 41
West Newton Mines	Coal				1322 69		38 10							1361 79
R. O. White	Brick								3 00					3 00
R. D. Wood & Co.	Hydrants	1044 00												1044 00
Worwick M'fg Co.	Plumbing fixture's	32 00	3 48						3 22					38 70
J. S. Casement & Co.	Estimate										3145 00			3145 00
W. J. Gawne	Salary										100 00			100 00

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

AUGUST.

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Palmyr Mount Reservoir.	Total.
Pay rolls.....	Labor, etc.....	8543 25	33 88 413 74	25 80 2381 32	2181 88		86 63 352 00	333 67	397 69	100 00	183 33	137 27		15200 37
Bell, Cartright & Co.....	Lumber.....	68 54		9 80		6 00				32 84				117 18
W. Bingham & Co.....	Hardware.....		1 83	1 46	10 79		1 50		4 61					20 19
Borden, Selleck & Co.....	Scale.....											475 00		475 00
F. & H. Born.....	Oil can, etc.....	45	40											85
W. P. Braund & Son.....	Blacksmithing.....	19 41					31 87							51 28
Brooks Building Co.....	Wedges, etc.....	72 27	11 51											83 78
Brooks & Co.....	Stationery.....			3 75										3 75
J. S. Casement & Co.....	Estimate.....										12388 10			12388 10
City of Cleveland.....	Paving.....	104 75												104 75
Cleveland Fire Department's Telephone service	Telephone service.....			25 00										25 00
Cleveland Gas Co.....	Gas.....	12 50		23 80										36 30
Clement Bros.....	Cement.....											58 84		58 84
A. J. Cook, M. D.....	Medical services.....	17 00												17 00
Farnap's Brass Works.....	Ferrules.....	65 00						1574 00						1639 00

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
AUGUST.

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Kettles.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Thos. Manning, Jr. & Co.	Sprink'r coupl'gs		29 75					6 74						36 49
J. W. Nixon	Plumbing	11 21	1 54											12 75
P. O'Brien	Oil		4 50											4 50
A. T. Osborne & Co.	Paper			3 00										3 00
People's Gas Co.	Gas				93 15									93 15
Plain Dealer Pub. Co.	Advertising				45 00									45 00
Purdy & McNeil	Lumber—arth.		36 41											36 41
Rhodes & Beidler Coal Co.	Coal	17 65												17 65
Frank Riblet	Team							95 50						95 50
F. E. Sealand	Carriage	49 00			6 00				6 00					61 00
F. E. Sealand	Carriage	72 75			12 00				30 00					114 75
W. P. Southworth	Pails	83												83
J. J. Shepard	Fire clay					41 20								41 20
Strong, Cobb & Co.	Lard Oil			75										1 80
Sturtevant Lumber Co.	Lumber											95 02		95 02

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

AUGUST.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Reveries.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
E. C. Terry.....	Meter.....	.....	.....	.....	.....	.....	.....	.....	18 25	.....	.....	.....	.....	18 25
Tag May	Towing.....	.....	.....	5 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	5 00
Union Oil Co.....	Lard oil.....	.....	.....	.....	40 73	.....	.....	.....	.....	.....	.....	.....	.....	40 73
Upson & Walton	Supplies.....	.....	12 29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12 29
A. T. Van Tassel & Co.....	Hardware .....	.....	.....	.....	8 38	.....	.....	.....	.....	.....	.....	.....	.....	8 38
Variety Iron Works.....	Boiler work.....	.....	.....	.....	.....	.....	.....	.....	.....	57 29	.....	.....	.....	57 29
Ward & Jackson	Blacksmithing.....	.....	6 21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6 21
West Newton Mines.....	Coal.....	.....	.....	.....	1459 92	.....	34 16	.....	.....	.....	.....	.....	.....	1491 08
Wood Bros.....	Sewer pipe.....	.....	.....	.....	.....	20 00	.....	.....	.....	.....	.....	.....	.....	20 00
R. D. Wood & Co.....	Hydrants.....	3132 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3132 00
Worswick Mfg. Co.....	Plumber goods.....	.....	1 00	.....	.....	.....	.....	.....	78 69	.....	.....	.....	.....	79 69

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

SEPTEMBER.

Bills Rendered by	For	Pipe Excursion.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Patrimont Reservoir.	Total.
Clements Bros.....	Contract.....	2 01							17 00					19 04
Cleveland Paper Co.....	Stationery.....			12 50										12 50
City of Cleveland.....	Paving.....	172 00												172 00
Andrew Doll, Jr.....	Final estimate.....									120 00				120 00
Farnan's Brass Works.....	Stop cocks, etc.....		3 45			2 87		1049 30						1055 62
S. G. French.....	Harness.....		34 25											34 25
W. H. Gabriel.....	Blacksmithing.....	47 8							90					48 75
Gibson & Price.....	Pig lead.....	2773 97												2773 97
Globe Iron Works.....	Blacksmithing.....					46 67								95 67
W. L. & E. Gurley.....	Plumb bobs.....										9 50			9 50
G. S. Hoehler.....	Prescription.....	5 30												5 30
Hugh Harrison.....	Brick.....								48 99					48 99
H. M. Henry.....	Plugs.....	9 60												9 60
Hercules Powder Co.....	Powder.....						1 15							1 15

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

SEPTEMBER.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Flatmount Reservoir.	Total.
E. H. Jones & Co.....	Meter fittings.....							97 75						97 75
Kelley Island Lime Co.....	White lime.....					2 00								2 00
Lake Shore Foundry.....	Pipe.....	17040 98												17040 98
Lake Shore Foundry.....	Pipe.....	15905 24												15905 24
Leader Printing Co.....	Advertising.....				70 98									70 98
Lord, Bowler & Co.....	Valves.....	1355 08												1355 08
W. A. Madison, Secretary	Freight, etc.....	18 48	75	5 90										25 13
Mary McAuley.....	Washing towels.....			10 58										10 58
Geo. Norris.....	Lumber.....		1 73											1 73
P. O'Brien.....	Oil.....		1 87						1 65					3 52
Ohio Rubber Belling Co.....	Hose.....	81 00												81 00
People's Gas Co.....	Gas.....				53 70									53 70
Rhodes & Beidler Coal Co	Coal.....	16 10												16 10
F. E. Sealand.....	Cartage.....	32 00										3 00		35 00

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

SEPTEMBER.

Bills Rendered by	For	Pipe Extension.	(General Repairs.	Office and General Expenses	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Fairmount Reservoir.	Total.
Geo. Worthington.....	Door spring.....			75										75
Worswick Mfg. Co.....	Plumbers' fittings.....	103 93	2 13											106 06
J. S. Casement & Co.....	Estimate										10233 50			10233 50
C. F. Ribbet.....	Use of horse and wagon }							93 00						93 00
F. S. Gilbert.....	Driving holes.....										125 00			125 00

OCTOBER.

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[illegible]

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

OCTOBER.

Bills rendered by	For	Pipe Extension.	(General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Fairmount Reservoir.	Total.
Short & Forman.....	Warrant book.....			9 00										9 00
W. P. Southworth.....	Brush						1 78							1 78
Strong, Cobb & Co.....	Oil.....			85										85
J. H. Thomas.....	Fire extinguisher											100 00		100 00
Union Oil Co	Lard oil.....				46 01									46 01
Upson, Walton & Co.....	Chimneys.....		2 00											2 00
A. T. VanTassel & Co.....	Hardware				2 70									2 70
Variety Iron Works.....	Plata.....				17 31									17 31
Warner & Swasey	Repairs			3 85							16 50			20 35
R. D. Wood & Co.....	Hydrants	318 00												318 00
Woods, Jenks & Co.....	Lumber.....	174 38												174 38
Worswick M'fg Co.....	Plumbers' fittings		44 03						9 57					53 60
West Newton Mines.....	Coal				1613 92		44 91							1658 86

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
NOVEMBER.

REPORT OF WATER WORKS DEPARTMENT.

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[illegible]

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

NOVEMBER.

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reimburse- ment.	Total.
Cleveland Directory Co.....	Maps, etc.....			6 00										6 00
Clements Bros.....	Cement.....					34 25			8 50					42 75
Cleveland Gas Light Co.....	Gas.....			38 70										38 70
Cleveland Paper Co.....	Envelopes.....			50										50
Cleveland Twist Drill Co.....	Drill.....								5 00					5 00
Cleve. Window Glass Co.....	Glass.....		1 25				1 35							2 60
Cross Bros. & Co.....	Meter rings, etc.....								37 90					37 90
Dewstoe & Schneider.....	Gas fitting.....			1 90	64 60									66 50
Thos. Elwood.....	Use of horse and wagon. }								10 00					10 00
Farnan's Brass Works.....	Ferrules, etc.....							469 39						469 39
Forest City Ice Co.....	Ice.....			7 71										7 71
W. H. Gabriel.....	Blacksmithing.....	37 40	10 70											48 10
Gibson & Price.....	Pig lead.....	508 30												508 30
Globe Iron Works.....	Iron work.....					4 95								4 95

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

NOVEMBER.

REPORT OF WATER WORKS DEPARTMENT.

837

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
J. W. Grover & Son	Ship chandlery.....	.....	44 31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44 34
Hugh Harrison.....	Brick.....	.....	.....	.....	.....	.....	.....	.....	70 44	.....	.....	.....	.....	70 44
Dr. R. Heym.....	Medical services.....	19 75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19 75
E. H. Jones & Co.....	Meters, etc.....	.....	.....	.....	.....	.....	.....	.....	676 30	.....	.....	.....	.....	676 30
H. M. Hempy & Son.....	Plugs.....	6 60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6 60
Lake Shore Foundry.....	Pipe.....	4117 34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4117 34
Samuel Law.....	Use of boat.....	.....	9 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9 00
Lord, Bowler & Co.....	Valves.....	817 99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	817 99
Macbeth & Co.....	Manholes, etc.....	.....	.....	.....	.....	.....	.....	.....	50 90	.....	.....	.....	.....	50 90
Wm. A. Madison, Sec'y.....	Freight, etc.....	43 13	.....	9 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	57 13
Thos. Manning, Jr. & Co.....	Reamers.....	.....	.....	.....	.....	.....	.....	18 20	.....	.....	.....	.....	.....	18 20
Martin & Barriss.....	Oak.....	.....	.....	.....	.....	17 35	.....	.....	.....	.....	.....	.....	.....	17 35
Meriam-Morgan Par. Co.....	Carbon oil.....	.....	.....	.....	4 73	.....	.....	.....	.....	.....	.....	.....	.....	4 73
H. Mueller Mfg. Co.....	Corporation cocks.....	.....	.....	.....	.....	.....	.....	20 78	.....	.....	.....	.....	.....	20 78

REPORT OF WATER WORKS DEPARTMENT.

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

NOVEMBER.

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Furnaces.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Rainmount Reservoir.	Total.
J. W. Nixon.....	Plumbing.....	17 41												17 41
J. W. Nixon.....	Plumbing.....	97 15												97 15
W. H. H. Peek & Co.....	Rubber covers.....		3 50											3 50
Peoples' Gas Co.....	Gas.....				53 40									53 40
Plain Dealer Pub. Co.....	Water rents.....			9 00										9 00
C. F. Riblet.....	Horse hire.....							172 50						172 50
G. C. Schofield.....	Boiler compound.....				86 85									86 85
F. E. Sealand.....	Cartage.....	8 00				9 00			6 00					23 00
J. J. Shepard.....	Tile.....					10 70								10 70
W. P. Southworth.....	Soapine.....			1 20										1 20
Taylor Bros. & Co.....	Stamp.....			2 50										2 50
The Press.....	Advertising.....			7 50										7 50
John Thompson.....	Plumbing.....					16 91								16 91
A. T. Van Tassel & Co.....	Hardware.....				1 45	3 10								4 55

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.

NOVEMBER.

Bills rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Pennies.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Reservoir.	Total.
Waechter and Erie Pub. Co.	Advertising.....	.....	.....	4 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	4 00
Warner & Swasey.....	Repairs.....	.....	.....	2 75	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 75
West Newton Mines.....	Coal.....	.....	.....	.....	1382 43	.....	40 59	.....	.....	.....	.....	.....	.....	1423 02
R. D. Wood & Co.....	Hydrants.....	1740 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-1740 00
Worswick M'fg Co.....	Plumber's fittings.....	.....	.....	.....	.....	.....	.....	.....	36 65	.....	2 76	.....	.....	36 41

ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—Continued.
DECEMBER.

REPORT OF WATER WORKS DEPARTMENT.

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ABSTRACT OF EXPENDITURES OF CLEVELAND WATER WORKS FOR THE YEAR 1888.—*Concluded.*
DECEMBER.

Bills Rendered by	For	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	High Service Expenses.	Ferrules.	Meters.	New Engines and Boilers.	New Tunnel.	Construction.	Falmount Reservoir.	Total.
Warner & Swasey	Repairs			30										30
West Newton Mines	Coal			1677 80			31 74							1709 54
R. D. Wood & Co.	Hydrants	696 00												696 00
Worwick Mfg. Co.	Pipe tongs								80					80
W. H. Radcliffe	Oak					45								45
Walter V. Metcalf	Diving		45 00											45 00
McReynolds & Gawne	Part of fuel												5000 00	5000 00
Riely & Kuentz	Teams and labor		1100 84											1100 84
		298724 09	8032 32	35579 83	47416 79	1992 54	5253 87	13679 69	12555 14	38166 73	70472 76	914 11	6142 15	449730 02

RECAPITULATION OF EXPENDITURES FOR THE
YEAR 1888.

Pipe Extension.....	\$ 209,724 09
General Repairs.....	8,032 32
Office and General Expenses.....	35,579 83
Engine House Expenses.....	47,416 79
Engine House Repairs.....	1,992 54
High Service.....	5,253 87
Ferrules	13,679 69
Meters.....	12,355 14
Engines and Boilers	38,166 73
Tunnel	70,472 76
Construction	914 11
Fairmount Reservoir.....	6,142 15
Total.....	\$ 449,730 02

**INVENTORY OF PROPERTY OF ALL KINDS IN POSSESSION OF WATER WORKS DEPARTMENT,
DECEMBER 31, 1888.**

BOOKS, STATIONERY, ETC.

Annual Reports.....	225	For the year 1887.
"	240	" 1886.
"	27	" 1885.
"	98	" 1884.
"	158	" 1883.
"	183	" 1882.
"	82	" 1881.
"	124	" 1880.
"	163	" 1879.
"	136	" 1878.
"	108	" 1877.
"	124	" 1876.
"	68	" 1875.
"	13	" 1872.
"	41	" 1871.
"	26	" 1870.
"	22	" 1869.
"	8	" 1867.
"	3	" 1866.
"	3	" 1865.
"	1	" 1859.
"	62	" 1858.
"	27	" 1857.
"	4	" 1856.
"	51	" 1855.

BOOKS.

Abstract.....	1	Daily cash receipts.
"	1	Expenditures.
"	1	Water rents (meters).

Assessor's reports.....	4	
Auditor's warrant.....	1	
Building purposes.....	1	
Bill book.....	1	Miscellaneous work.
Cash.....	1	
Coal	2	
Connection order book.....	1	
Cost of pipe laying	7	Detail.
"	1	Summary.
Day book.....	1	
Delivery and receipts.....	16	
Express books.....	21	
Engine duties.....	1	
" records	1	Cornish.
" "	1	Henderson.
" "	1	Worthington No. 1.
" "	1	Worthington No. 2.
" "	1	Worthington No. 3.
" "	1	Office summary.
Elevator books	1	
Fire hydrants.....	2	
General order and complaint book.....	1	
Index to map books.....	1	
" water meters.....	1	
Index.....	1	Blank.
Invoice.....	1	
Inspector's report book.....	1	Plumber's.
" repair book.....	1	"
Journals.....	2	
Ledger.....	1	
Meter test book.....	1	
" complaint and repair book.....	1	
" district book	11	
" setting order book.....	1	
" records	1	of readings.
Miscellaneous records.....	2	of pipe, engines, etc.
Order books	2	
Outsider "	1	
" Off " connection book.....	1	
Permit books.....	2	1 to 15,000 and 15,001 to 30,000.

Permit books.....	17	Old.
Pipe records.....	2	
" order books	1	
Rebate books.....	1	
Register books.....	2	
Receipt "	1	of articles loaned.
Requisition books	45	
Receipt and expenditure.....	1	
Records.....	1	of meters received & disposed of.
"	1	" set.
"	1	of service and hydrant leaks.
Service pipe records.....	6	
Sprinkler account book	1	
Time rolls	1	
Turn "on"	1	
Tunnel estimate book.....	1	
Valve records.....	2	
Voucher register.....	1	
Water rent accounts.....	2	Lease books.
Blank books.....	1	Common.
"	3	Lap cover.
Bill slips.....	800	Plain.
Blotters.....	400	
Crayon	10-12	gross.
Directories	2	City.
Envelopes	320	large white plain.
"	24	small "
"	3,057	" "water works."
"	104	large manilla.
"	133	small (stamped).
"	1,400	pay roll.
"	14	specification.
Erasers	19	ink.
"	5	artists' (large).
"	12	" (small).
Form 4 "A"	2,900	Bill blanks (small).
" 5 "A"	100	" (large).
" 7	1,600	Invoice or claim, blanks (large).
" 9	4,000	Permits for building purposes.
" 10	1,900	"Notice" blanks.

Form 11 "A".....	250	Letter heads (large).
" 11 "B".....	200	" (small).
" 12 "B".....	500	Pay roll blanks.
" 14 "A".....	2,600	Plumbers' returns.
" 16 "A".....	800	" blank bonds.
" 16 "B".....	200	Abstract of water rent blanks [(meters).]
" 17 "A".....	45	Petition blanks.
" 17 "B".....	100	Abstract of expenditure blanks.
" 18 "B".....	40	Elevator notice blanks.
" 19 "A".....	600	Turn off cards.
" 20 "A".....	600	Secretary's receipts.
" 20 "B".....	125	Foreman's return blanks.
" 21 "A".....	125	Sprinkler permit blanks.
" 22	75	Inventory blanks (detail).
Ink bottles (small).....	3	Red.
" (large).....	3	Writing fluid.
Ink sticks.....	1	India.
Ink bottles.....	10	
Ink stands.....	11	
Ink dishes.....	9	Draughtman's.
Mucilage—bottles (large).....	1	
" " (small).....	4	
Pencils.....	14½	dozen lead.
".....	6	" draughtman's.
Pens.....	1-12	gross stub.
".....	2-12	" common.
Pen holders.....	6	
Pen racks.....	5	
Paper.....	36	sheets foolscap.
" scraper.....	1	
" fasteners.....	2	gross large.
" weights.....	2	
Pins.....	3	papers.
Rulers.....	1	gutta percha.
".....	1	wooden.
Rules and regulations.....	10,000	abstract.
Rubber bands.....	1-12	gross large.
".....	8-12	" medium.
".....	5-12	"
".....	5-12	" small.

Schedules.....	1	Diameter and weights of pipe (and specials).
Spindles	10	
Sponge cups—complete.....	7	
Stylus	1	
Tags.....	1,000	

STOCK, MATERIAL, ETC.

CAST IRON PIPE.

36 inch pipe, 12 feet lengths	8	
30 " 12 "	16	
24 " 12 "	13	
20 " 12 "	7	
16 " 12 "	5	
12 " 12 "	4	
10 " 12 "	9	
8 " 12 "	8	
6 " 12 "	75	
4 " 12 "	33	
36 inch socket pipe pieces	32	feet 11 inches.
30 "	83	"
24 "	120	" 3 "
20 "	14	" 10 "
16 "	14	" 5 "
12 "	15	" 6 "
10 "	47	"
8 "	80	" 6 "
6 "	141	" 2 "
4 "	1,002	" 6 "
3 "	168	" 6 "
30 inch plain pipe pieces	9	" 5 "
24 "	48	"
20 "	10	"
16 "	6	" 9 "
12 "	34	" 2 "
10 "	61	" 8 "
8 "	201	" 2 "
6 "	309	"
4 "	28	"
3 "	188	"

30 inch air-cock pipe.....	1	
36 " flange pipe.....	2	At Lake Shore Foundry.
30 " ".....	1	" "
36 " socket curves.....	2	
30 " ".....	2	
20 " ".....	3	
16 " ".....	1	
12 " $\frac{1}{8}$ curves.....	5	
10 " ".....	5	
8 " ".....	26	
6 " ".....	10	
4 " ".....	4	
8 " 1-16 curves.....	10	
6 " ".....	14	
4 " ".....	10	
3 " ".....	9	
8 " double reverse curves.....	2	
6 " " ".....	4	
6 " reverse curves.....	1	
4 " ".....	1	
10 " elbows.....	1	
8 " ".....	1	
6 " ".....	8	
3 " ".....	4	
20 " crosses.....	1	
16 to 12 inch crosses.....	1	
12 inch crosses.....	1	
10 " ".....	1	
10 to 8 inch crosses.....	1	
8 inch crosses.....	5	
8 to 6 inch crosses.....	2	
6 inch crosses.....	14	
6 to 4 inch crosses.....	1	
4 inch crosses.....	15	
16 " Tees.....	2	Plain.
12 " ".....	1	
12 to 14 inch Tees.....	1	
10 inch Tees.....	2	
10 to 8 inch Tees.....	2	
8 inch Tees.....	5	

8 to 6 inch Tees.....	3	
8 to 4 " ".....	1	
6 inch Tees.....	9	
6 to 4 inch Tees.....	1	
4 inch Tees.....	6	
36 to 16 inch Reducers.....	1	At Lake Shore Foundry.
30 to 16 " ".....	1	At Lake Shore Foundry.
30 to 24 " ".....	1	
20 to 8 " ".....	1	
16 to 12 " ".....	2	
12 to 10 " ".....	1	
12 to 6 " ".....	5	
10 to 8 " ".....	2	
10 to 6 " ".....	13	
8 to 6 " ".....	26	
8 to 4 " ".....	4	
6 to 4 " ".....	18	
6 to 3 " ".....	7	
4 to 3 " ".....	1	
4 to 2 " ".....	1	
36x30 inch Y's.....	2	At Lake Shore Foundry.
4 inch Y's.....	2	
36 inch clamp socket sleeves.....	2	
30 " ".....	1	
20 " ".....	7	
16 " ".....	4	
12 " ".....	2	
36 " clamp sleeves.....	3	
30 " ".....	2	
24 " ".....	1	
20 " ".....	4	
16 " ".....	3	
12 " ".....	1	
10 " ".....	5	
8 " ".....	6	
6 " ".....	8	
4 " ".....	6	
3 " ".....	7	
36 " sleeves.....	7	
30 " ".....	6	

24 in. sleeves.....	4
20 " "	6
16 " "	5
12 " "	8
10 " "	2
8 " "	11
6 " "	10
4 " "	4
3 " "	11
30 " caps.....	2
12 " "	1
8 " "	1
36 " plugs.....	1
10 " sprinkler tees.....	1
8 " "	1
4 " "	1
8 " double sockets.....	4
6 " "	4
4 " sprinkler caps.....	1 For end of pipe.

VALVE BOX FITTINGS, "NEW STYLE."

Valve box covers.....	18
" top frames.....	25
" bottom frames.....	22
No. "O" narrow plates.....	30
" "O" wide plates.....	32
Extra top frames, 1 $\frac{1}{4}$ inch.....	4
" " 8 "	1
" " 4 "	5
" " 5 "	5
" " 6 "	6
" " 7 "	6

VALVE BOX FITTINGS, "OLD STYLE."

Valve box covers.....	47
" top frames.....	33
" bottom frames.....	29
No. 1 narrow plates.....	32

No. 1 wide plates.....	34	
No. 2 narrow ".....	36	
" wide ".....	36	
No. 3 narrow ".....	53	
" wide ".....	54	
No. 4 narrow ".....	2	
" wide ".....	6	
Extra top frames, 3 inch.....	2	
6 inch cylinder valve boxes.....	1	
6 " " head sockets.....	20	
4 " " ".....	11	
6 " " covers.....	28	
4 " " ".....	16	
Flushing hole rings.....	1	
Manhole rings, (large, heavy).....	1	
" " cover, (large, heavy).....	1	
Meter vault rings.....	16	
" covers.....	13	
Cylinder, 9 feet.....	1	For tunnel shafting.
Hitching post castings.....	1½	sets.
⅝ inch stop cock boxes.....	84	Complete.
¾ " stop cocks and rods.....	22	
⅝ " " ".....	17	
½ " " ".....	1	
1 " stop cock boxes, without caps.....	5	Complete.
⅝ " " ".....	5	Complete.
Letter "A" stop cock box caps.....	3	
" "B" " ".....	1	
" "C" " ".....	1	
" "G" " ".....	3	
" "H" " ".....	1	
Letter boxes, complete.....	20	All kinds.
¾ inch ferrules.....	23	Brass.
⅝ " ".....	16	Brass.
1 " plugs.....	20	Brass.
¾ " ".....	2	Brass.
⅝ " ".....	19	Brass.
Letter "A" plates.....	3	Brass.
" "B" ".....	6	Brass.
" "C" ".....	8	Brass.

Letter "D" plates.....	6 Brass.
" "E" "	7 Brass.
" "F" "	8 Brass.
" "G" "	3 Brass.
" "H" "	6 Brass.
" "I" "	11 Brass.
1¼ inch stop and waste cocks.....	1
2 " stop cocks.....	1
1½ " "	1
1 " "	1
⅝ " "	3
Sprinkler permit plates.....	42
30 inch stop valves.....	2
20 " "	2
16 " "	1
6 " "	1
4 " "	13
3 " "	34
2 " "	1
½ " "	2
36 inch valve indicators and gearing.....	4 Complete.
30 " " "	4 Complete.
20 " " "	1 Complete.
36 " valve screws.....	1 Brass.
30 " "	2 Brass.
8 " "	1 Brass.
6 " "	3 Brass.
4 " "	3 Brass.
8 " valve screw nuts.....	1 Brass.
30 " " caps.....	2 Galvin.
8 " " "	1
6 " " "	16
3 " " "	5
6 " valve stuffing boxes.....	2
4 " " "	2
2½ inch globe valves	2 Straight way.
2 " "	2 "
1½ " "	1
1 " "	1
¼ " "	5

$\frac{3}{8}$ inch globe valves	1	
$\frac{1}{4}$ " "	1	
2 " globe valve and hyd. couplings.....	1	for supplying circuses.
2 " angle valves.....	4	
$1\frac{1}{4}$ " "	2	
1 " "	1	
$\frac{1}{4}$ " "	1	
2 " air-cocks.....	4	

6 INCH MATHEW'S HYDRANTS AND FITTINGS.

6 inch Mathew's hydrants.....	5	
6 " " domes.....	2	
6 " " valves and plates.....	1	
6 " " gooseneck rings.....	1	brass.

4 INCH MATHEW'S HYDRANTS AND FITTINGS.

4 inch Mathew's hydrants.....	41	
4 " " stuffing boxes.....	11	top.
4 " " " "	11	inside.
4 " " domes.....	9	
4 " " nozzles.....	14	brass.
4 " " nozzle caps.....	33	
4 " " frost cases.....	12	
4 " " valves and plates	1	
4 " " goosenecks.....	10	
4 " " gooseneck rings.....	6	brass.

3 INCH MANNING HYDRANTS AND FITTINGS.

3 inch Manning hydrants.....	25	Complete without frost cases.
3 " " rod handles.....	7	
3 " " " screws.....	22	brass.
3 " " stuffing boxes.....	8	top.
3 " " rod braces.....	22	
3 " " goosenecks.....	16	
3 " " steady washers.....	18	
3 " " top cylinders	44	
3 " " frost cases.....	38	
3 " " nozzle caps.....	12	

4 inch Cincinnati hydrant.....	1 old—complete.
Sprinkler top frames.....	13 Complete.
“ couplings.....	25 brass.
“ clamps.....	3

PIPE CLAMPS AND FITTINGS.

16 inch pipe clamps	1 set—complete.
12 “	24 “
10 “	28 “
8 “	76 “
6 “	40 “
4 “	7 “
12 inch clamp bars.....	1 old.
10 “	4 “
8 “	4 “
6 “	11 “
12 inch pipe plugs (wooden).....	1
10 “	1
8 “	25
6 “	22
4 “	6

WROUGHT IRON PIPE AND FITTINGS.

6 inch wrought iron pipe (common).....	44 feet.
4 “	29 “
3 “	87 “
2 “	20 “
1½ “	12 “
1¼ “	6 “
1 “	12 “
¾ “	25 “
½ “	10 “
2½ inch galvanized iron pipe	16 “
2 “	334 “
1½ “	38 “
1¼ “	35 “
1 “	103 “
¾ “	53 “
½ “	12 “

2 inch $\frac{1}{8}$ bends	8 malleable.
$\frac{3}{4}$ "	8 "
3 to 2 inch bushings.....	1 "
2 to $1\frac{1}{2}$ "	13 "
$1\frac{1}{2}$ to $1\frac{1}{4}$ "	11 "
$1\frac{1}{4}$ to 1 "	1 "
1 to $\frac{3}{4}$ "	6 "
$\frac{3}{4}$ to $\frac{1}{2}$ "	5 "
3 to $2\frac{1}{2}$ inch reducing couplings.....	1 "
3 to 2 "	1 "
$2\frac{1}{2}$ to 2 "	2 "
2 to $1\frac{1}{2}$ "	11 "
2 to $\frac{3}{4}$ "	1 "
$1\frac{1}{2}$ to $1\frac{1}{4}$ "	2 "
$1\frac{1}{4}$ to 1 "	11 "
$1\frac{1}{4}$ to $\frac{3}{4}$ "	1 "
1 to $\frac{3}{4}$ "	6 "
$\frac{3}{4}$ to $\frac{1}{2}$ "	1 "
3 inch caps.....	2 "
2 "	13 "
$1\frac{1}{2}$ "	8 "
$1\frac{1}{4}$ "	5 "
1 "	8 "
$\frac{3}{4}$ "	11 "
$\frac{1}{2}$ "	1 "
$\frac{3}{8}$ "	3 "
2 inch crosses.....	1 "
$1\frac{1}{2}$ inch "	2 "
6 inch elbows.....	3 "
4 "	1 "
3 "	1 "
$2\frac{1}{2}$ "	1 "
$2\frac{1}{2}$ to 2 "	1 "
$2\frac{1}{2}$ to 1 "	1 "
2 "	16 "
$1\frac{1}{2}$ "	46 "
$1\frac{1}{4}$ "	5 "
1 "	76 "
$\frac{3}{4}$ "	81 "
$\frac{1}{2}$ "	1 "

2	inch street ells.....	10	malleable.
1½	"	9	"
1¼	"	9	"
1	"	14	"
1 to ¾	"	2	"
¾	"	28	"
4	inch nipples.....	1	from 3 to 14 inches long.
3	"	2	"
2½	"	1	"
2	"	64	"
1½	"	28	"
1¼	"	73	"
1	"	176	"
¾	"	174	"
½	"	4	"
⅜	"	1	"
¼	"	6	"
5	inch plugs.....	1	malleable.
4	"	1	"
2	"	7	"
1½	"	11	"
1¼	"	6	"
1	"	20	"
¾	"	10	"
⅜	"	2	"
¼	"	22	"
3	inch sockets.....	2	
2	"	29	
1½	"	29	
1¼	"	22	
1	"	61	
¾	"	23	
½	"	1	
3 x 2	inch tees.....	2	malleable.
2	"	11	"
2 x 2 x ¾	"	1	"
2 x 1½	"	1	"
2 x 1	"	1	"
x ½	"	3	"
1½	"	23	"

1½ x 1 inch tees.....	2 malleable.
1½ x 1 x ¾ "	4 "
1½ x ¾ "	2 "
1¼ "	19 "
1¼ x 1 x ¾ "	3 "
1¼ x 1 "	1 "
1¼ x ¾ "	24 "
1 x 1 x ¾ "	1 "
1 x ¾ x ¾ "	1 "
¾ "	29 "
2 inch unions	4
1½ "	13
1¼ "	23
1 "	17
¾ "	43
7 inch flanges.....	2
4 "	2
3 "	1
2½ "	1
2 "	4
1½ "	2

"CROWN" METERS AND FITTINGS.

1 inch crown meters.....	1
¾ "	5

WORTHINGTON METERS AND FITTINGS.

4 inch Worthington meters.....	1
3 "	4
2 "	6
1½ "	11
1 "	15
¾ "	31
4 inch counters and dials (screws)	8 10 feet—10,000,000.
3 "	5 "
2 "	6 "
1½ "	9 "
1 "	13 "
¾ "	34 1 foot—1,000,000.

3 inch counters and dials (pins)	3
2 " " "	1
1½ " " "	1
1 " " "	8
3 inch counter plates.....	1
2 " " "	1
1½ " " "	1
1 " " "	3
¾ " " "	6
½ " round head brass screws.....	1 gross—for counters.
½ " flat " "	1 gross—for caps.
100 feet dials.....	14 10,000,000.
10 " " "	8 10,000,000.
1 " " "	12 1,000,000.
2 inch old style meter caps.....	4
4 to 1 inch new style meter caps.....	11
¾ inch new style meter caps.....	22
4 inch ratchets and spindles.....	2
3 " " "	7
2 " " "	4
1½ " " "	4
1 " " "	19
¾ " " "	23
Meter spindles (brass).....	2 Long.
" " "	3 Short.
4 inch meter flanges.....	8
3 " " "	10
1 inch solder nipples.....	3 Brass.
¾ " " "	2 Brass.
½ " " "	1 Brass.
4 " meter flange bolts.....	12
3 " " "	12
1 " corporation stop cocks.....	1
¾ " " "	25
½ " " "	8
¼ " " "	7

MISCELLANEOUS CASTINGS, ETC.

Columns 12 inch x 21 feet, 6 inches long.....	4 Cast iron.
" 12 " x 15 " "	2 Cast iron.

Columns 4 inch x 14 feet long.....	4	Cast iron.
Thimbles 24 inches x 22 inches.....	2	For wall.
" 10 " x 22 " 	1	For wall.

STOCK AND MATERIAL.

Barrels (oil).....	29	
Bath brick.....	2	bars.
Block tin.....	11	pounds.
2½ inch boiler plugs.....	1	Brass.
1¼ " Bolts.....	200	pounds.
1½ " ".....	60	pounds.
1 " ".....	20	pounds.
¾ " ".....	10	pounds.
¾ " ".....	43	pounds.
¾ " ".....	10	pounds.
1x1 inch drift bolts.....	400	pounds.
¾ inch machine bolts.....	10	pounds.
1¼ inch plain bolts.....	5	pounds.
1½ " ".....	5	pounds.
1 " ".....	15	pounds.
¾ " ".....	10	pounds.
¾ " ".....	10	pounds.
1¼ " stud bolts.....	30	pounds.
1 " ".....	35	pounds.
¾ " ".....	3	pounds—brass.
Brick (hard).....	2,400	
" (soft).....	900	
Brimstone.....	100	pounds.
Canvas duck.....	3	yards.
Card board.....	3	sheets.
Cement.....	1	barrel—Louisville.
".....	30	bags—Louisville.
".....	2	barrels—Portland.
Chalk.....	½	pound.
Chamois skin.....	1½	
Coal.....	170	tons—lump—estimate.
".....	270	tons—slack—estimate.
Coal tar.....	¼	barrel.
Corks.....	1	gross.

Emery (flour of).....	¼ pound.
“ (coarse)	2 pounds.
“ cloth.....	32 sheets.
Fence posts.....	312
Fire brick	50 common.
“	35 arch.
Fire clay.....	1½ barrels.
Gaskets (rubber).....	72 meters—assorted sizes.
“	12 boiler manhole.
4 inch flange gaskets.....	2 rubber.
3 “	2 rubber.
Gas burners.....	12
Gas burner tips (lava).....	12
Gate hinges.....	3
Gate well grooves.....	14 cast iron.
Grate bars.....	53 <i>Ætna</i> .
Grate side bars.....	3 <i>Ætna</i> .
Grease.....	28 pounds—Journal.
“	1 box—axle.
Hand hole plates.....	2
“ crabs.	5
¾ inch hand hole bolts.....	4
¾ inch x 2 inch x 12 feet lagging.....	2
¾ “ x 4 “ x 12 “	2 headed.
2 inch x 8 feet lagging bands.....	12
Lake sand.....	2 cubic yards.
Lead (pig).....	2,845 pounds.
¼ inch sheet lead.....	6 pounds.
½ “	65 pounds.
1-16 “	5 pounds.
1 inch lead pipe.....	161 pounds.
¾ “	27 pounds.
Red lead.....	5 pounds, dry.
White lead.....	2 pounds.

LUMBER (OAK).

6 inches x 16 inches x 7 feet, oak.....	1 piece.
6 “ x 12 “ x 16 “	3 pieces.
3 “ x 14 “ x 16 “	2 pieces.

4 inches x 16 inches x 16 feet, oak.....	1 piece.
5 " x 10 " x 16 "	3 pieces.

LUMBER, (PINE.)

10 inches x 16 inches x 12 feet, pine.....	9 pieces.
10 " x 16 " x 25 "	1 piece.
4 " x 16 " x 25 "	5 pieces.
4 " x 16 " x 20 "	1 piece.
4 " x 16 " x 16 "	15 pieces.
4 " x 16 " x 13 "	1 piece.
9 " x 12 " x 20 "	1 piece.
8 " x 12 " x 10 "	2 pieces.
4 " x 12 " x 14 "	2 pieces.
12 " x 12 " x 18 "	1 piece.
10 " x 10 " x 18 "	10 pieces.
4 inch x 4 inch, pine.....	163 lineal feet.
2 " x 12 "	689 lineal feet.
2 " x 4 "	3,990 lineal feet.
2 " x 8 "	165 lineal feet, sheet piling.
1 " x 12 "	488 lineal feet.
1 " x 6 "	320 lineal feet.
1 " x 4 "	40 lineal feet.
Matched flooring.....	100 lineal feet.
Moulding (pine).....	125 pieces.
Matches.....	6 boxes.
Mercury.....	1½ pounds.

NAILS.

2d.....	152 pounds.
10d.....	92 pounds.
6d.....	215 pounds.

OIL.

Carbon.....	1½ barrels.
Cylinder.....	1 barrel.
Crude.....	2 gallons.
Lard.....	1 barrel.
Lard.....	36 gallons, refined.

Linseed.....	2 gallons, boiled.
Valvoline.....	20 gallons.

PAPER.

22 inch cross section.....	4 pounds, 10 to 1 inch.
Detail.....	7 pounds, manilla.
Eggshell.....	4 pounds.
Mustin back.....	10 yards.
Blank	15 sheets, large.
Wrapping.....	2 pounds.
Toilet.....	12 rolls.

PACKING.

2 ply rubber.....	85 pounds.
1 " "	9 pounds.
$\frac{3}{4}$ inch square rubber.....	14 pounds.
$\frac{3}{4}$ " round "	1 pound.
$1\frac{1}{2}$ " "	10 pounds, Empire.
1 " "	17 pounds, Empire.
$\frac{7}{8}$ " "	2 pounds, Empire.
$\frac{3}{4}$ " "	3 pounds.
Hemp.....	35 pounds.
Jute	434 pounds.
Soapstone.....	6 pounds.
Paint	8 pounds.
Paving stone.....	5 square yards.
Plaster of Paris.....	5 pounds.
Pickets.....	5,036 pine.
Plumbago.....	$\frac{1}{2}$ pound.
$\frac{3}{4}$ inch rivets.....	2 pounds, boiler.
Sand paper.....	3 sheets.
1 inch round head screws.....	$1\frac{1}{4}$ dozen, brass.
1 " flat "	12 dozen.
$1\frac{1}{4}$ inch lag screws.....	200 pounds.
$\frac{3}{4}$ " "	20 pounds.

SCRAP—CAST IRON, ETC.

Old grate bars.....	1,400 pounds—estimate.
Cast iron.....	$4\frac{1}{2}$ tons—estimate.
Brass	2,031 pounds.

Wrought iron crib irons.....	220 pounds.
Wrought iron.....	1,370 pounds.
Rail road track, small.....	4,000 pounds.
10 inch wrought iron pipe.....	26 feet.
Bolt rods.....	200 pounds.
1½x1½ inch tie rods.....	2
Copper.....	pounds.
Babbitt.....	45 pounds.
Rope junk.....	200 pounds.
Lead.....	1,100 pounds, scrap.
20 inch sewer pipe.....	2 lengths.
18 ".....	1 length.
12 ".....	2 lengths.
9 ".....	1 length.
8 ".....	1 length.
Sewer plate.....	1 in front of boiler.
Soap.....	55 pounds.
Solder.....	39¼ pounds.
9 inch spike.....	100 pounds.
8 ".....	130 pounds.
Spike—railroad.....	50 pounds, large.
" ".....	15 pounds, small.
Stove polish.....	11 hand boxes.
Tallow.....	180 pounds.
Tile, 12 inches x 18 inches x 2¼ inches.....	15
Tracing cloth.....	3 yards.
Twine (hemp).....	10 pounds heavy.
Washing soda.....	32 pounds.
1 inch washers.....	8 wrought iron.
¾ ".....	30 "
¾ ".....	25 "
2 ".....	25 rubber.
1½ ".....	21 "
1¼ ".....	84 "
1 ".....	50 "
¾ ".....	60 "

WASHERS AND GASKETS (COPPER).

15 inch gasket.....	1
14 ".....	10

12 inch gasket.....	3
11 ".....	10
9 ".....	2
8 ".....	3
6¾ ".....	20
6 ".....	4
5 ".....	25
4 ".....	31
3½ ".....	24
3 ".....	35
2½ inch washers.....	42
2 ".....	38
1½ ".....	93
1¼ ".....	20
1 ".....	3
¾ ".....	46
½ ".....	92
Waste (cotton).....	909 pounds.
Wedges (wooden).....	453
Wicking.....	16 pounds lamp.
".....	2 pounds mop.
Wicks.....	36 lamp.
Wire.....	5 pounds stove pipe.
".....	50 feet copper.
2 in. x 28 in. and 1¼ in. x 7 ft. round bar.....	75 pounds.

TOOLS AND UNEXPENDABLE ARTICLES.

Aqueduct gates.....	19
Adzes.....	1
2 inch air-cock bends.....	4
1½ ".....	2
Anvils.....	2
Armrests.....	2 for books.
Atlas.....	1 City of Cleveland.
2 inch ship augers.....	1
1¾ ".....	1
1¼ ".....	2
1⅛ ".....	1
1 ".....	6

$\frac{3}{8}$ inch ship augers.....	4	
$\frac{3}{4}$ "	2	
$\frac{1}{2}$ "	1	
2 inch auger.....	1	common.
$1\frac{1}{2}$ "	7	"
$1\frac{1}{4}$ "	1	"
$1\frac{1}{8}$ "	2	"
1 "	6	"
$\frac{7}{8}$ "	1	"
$\frac{3}{4}$ "	1	"
$\frac{5}{8}$ "	2	"
$\frac{1}{2}$ "	1	"
Awls.....	1	
Axes.....	8	
"	1	small.
"	1	woodchopper's.
Axe helves.....	11	
Ash boxes.....	1	wooden.
Barometers.....	3	
Baskets (1 bushel).....	2	
6 inch belting.....	25	feet for centrifugal pump
Bellows.....	1	blacksmith's. (leather).
Benches.....	3	carpenter's.
"	3	work.
"	21	for runway at Kinsman reser- voir.
Blackboards	1	
12 inch blocks.....	2	double iron.
8 "	5	"
7 "	3	"
6 "	6	"
Blocks, $8\frac{3}{4}$ inch sheaves.....		extra large double iron with hooks.
12 inch blocks.....	10	double wooden.
11 "	1	"
10 "	1	"
9 "	3	"
8 "	4	"
7 "	2	"
6 "	3	"
17 inch snatch blocks.....	2	wood.
14 "	1	"

9 inch snatch blocks.....	1 wood.
6 ".....	1 "
8 ".....	4 iron.
Differential blocks.....	1 large.
".....	2 small.
Blowers.....	1 for grate.
Blue print apparatus.....	1 complete.
Boat.....	1 at crib.
Boilers.....	1 stationary, upright.
Boring irons.....	2
Boxes.....	2 wooden for hoisting stone.
".....	2 iron "
Bottles, 2 quart.....	70 with glass stoppers.
Braces.....	2 common.
".....	1 ratchet.
Brooms.....	32
".....	1 clothes.
Brushes.....	3 color.
".....	3 dust.
".....	6 paint.
".....	1 stencil.
".....	1 scrubbing.
".....	4 window, complete.
".....	1 mudilage.
Brand "C. W. W.".....	1
Calipers.....	2 large pipe.
".....	2 small.
".....	1 elevator.
Candles.....	14 parafine.
1 gal. strainer can.....	1
Filling cans.....	1
10 gallon can (oil).....	1
5 ".....	5
3 ".....	2
2 ".....	5
1 ".....	10
1 quart ".....	1 brass.
Capstan bars.....	7 small.
Car movers.....	8
Card racks.....	1

Carpet.....	60 square yards Brussels.
Caulking tools.....	9 boiler.
“.....	91 pipe.
“.....	9 “ handled.
Cases.....	2 for maps, etc.
“.....	1 “ draughting paper.
“.....	1 “ annual reports.
“.....	1 “ water rent bills.
“.....	2 “ permits.
“.....	3 pasteboard.
“.....	1 for requisitions.
“.....	1 “ tapper's books.
“.....	1 “ old reports and bills.
Chairs.....	8 arm.
“.....	16 common.
“.....	3 perforated seat.
“.....	2 splint seat.
“.....	11 desk chairs.
“.....	12 upholstered.
$\frac{1}{8}$ inch chain.....	10 feet, hook and ring.
$\frac{3}{4}$ “.....	63 “ “ link.
$\frac{3}{4}$ “.....	13 “ “ ring.
$\frac{3}{4}$ “.....	31 “ plain.
$\frac{3}{4}$ “.....	34 “ 2 hooks.
$\frac{3}{4}$ “.....	21 “ link and clevis.
$\frac{3}{4}$ “.....	15 “ 2 hooks.
$\frac{3}{4}$ “.....	10 “
$\frac{3}{8}$ “ 20 feet long.....	2 hook and link each.
$\frac{1}{2}$ “.....	11 feet, hook.
$\frac{1}{2}$ “.....	10 “
$\frac{1}{2}$ “.....	5 “ ring.
$\frac{1}{2}$ “.....	6 “ link.
$\frac{1}{2}$ “.....	4 “
$\frac{3}{8}$ “.....	22 “ hook and ring.
$\frac{3}{8}$ inch hydrant chains.....	2
$\frac{1}{4}$ “ chains.....	4 feet.
$\frac{1}{4}$ “.....	64
Chain.....	1 pipe.
100 foot chain.....	1 surveyor's.
6 arm chandelier.....	1

4-arm chandelier.....	4	
2 "	3	
Chandelier globes.....	13	
Chisels.....	7	cape.
"	2	center.
"	69	cold.
"	39	diamond points.
"	2	ice.
2 inch chisels, joiner....	1	
$\frac{3}{4}$ "	1	
$\frac{1}{4}$ "	1	
1½ chisel.....	1	joiner gauge.
Chisels.....	20	stone.
" bars.....	1	
Clamp.....	1	for handling piston.
" and screw.....	1	" valve of cold water (pump.)
Claw bars.....	1	
Clevis and bolt.....	1	
Clocks.....	2	
Clothes racks.....	3	
Coal cars.....	2	small.
" scuttles.....	5	
Cold sets.....	34	handled.
"	1	anvil.
Coin detector.....	1	
Compasses (or dividers)	2	common.
"	1	beam.
Connection rods.....	2	with boxes and keys.
Cot.....	1	wire woven.
Counters.....	1	office, large.
"	1	" small.
" and case.....	1	for records.
Counter borers.....	1	
" sinks.....	1	for iron.
" "	1	" wood.
Cross head keys.....	3	
Crowbars.....	20	
Cups.....	1	tin.
Cupboards.....	1	lamp.
"	2	tools.

Cupboards.....	4 clothes.
2 inch curve pipe.....	1 for meter tests.
1½ "	1 "
1 "	1 "
¾ "	1 "
Curtains.....	22 window.
Cutting block.....	1 wrought iron.
Cylinder heads.....	1 for Worthington pump, extra.
Cornice.....	2 " boiler front.
Deck plates.....	4
Derricks.....	3 gate well.
"	3 folding.
"	1 large pipe.
" handles.....	4
Desks	1 cash.
"	2 counting house.
"	11 office.
"	1 register.
"	5 wall.
2 inch dies (plate).....	1
1½ "	2
1¼ "	1
1 "	4
¾ "	4
½ "	3
1¼ inch dies.....	4 sets adjustable.
1 "	1 "
¾ "	1 "
2 to 1½ inch dies	1 set automatic.
1¼ to 1 "	1 "
¾ to ½ "	1 "
3 inch die.....	1 for manning hydrants.
Die stocks.....	2 adjustable.
"	1 combination automatic.
2 inch die stocks	2 common pipe.
1 "	1 "
Die frames	2 extra.
1½ inch die stock guides.....	1
1¼ "	1
1 "	1

$\frac{3}{4}$ inch die stock guides.....	3
$\frac{1}{2}$ " ".....	3
$\frac{3}{8}$ " ".....	1
Dippers.....	5 tin.
Dirt scoops.....	1
Ditch lines.....	3
Door bolts.....	1
Draughting boards.....	16
Draughting scales.....	1 boxwood.
" ".....	1 steel.
Drawshave.....	1
Drift keys.....	2
$1\frac{1}{4}$ inch drift bars.....	1
1 " ".....	1
$1\frac{1}{2}$ inch drills (flat).....	1
$1\frac{3}{8}$ " ".....	1
$1\frac{1}{4}$ " ".....	1
$1\frac{1}{8}$ " ".....	1
1 " ".....	1
$\frac{7}{8}$ " ".....	1
$\frac{3}{4}$ " ".....	2
$\frac{5}{8}$ " ".....	3
$\frac{1}{2}$ " ".....	2
7-16 " ".....	1
5-16 " ".....	1
$\frac{1}{4}$ " ".....	1
3-16 " ".....	1
$\frac{1}{8}$ " ".....	2
1 inch drills (twist).....	1
3-16 " ".....	2
$1\frac{1}{4}$ inch drills.....	1 stone.
1 " ".....	4 "
3 inch tube well drill.....	1
Drill press.....	1 hand.
" ".....	1 stationary—complete.
Drill sockets.....	1
Drip pans.....	2 tin.
" ".....	2 brass.
Drop lights.....	7 complete.
" chimneys.....	1

Dust pans.....	3
Dusters.....	3 feather.
16 inch elbow	1 for smoke stack.
12 inches x 12 inches x 9 feet engine blocking	4 pieces pine.
12 " 12 " 7 "	3 "
10 " 12 " 7 "	2 "
10 " 10 " 10 "	2 "
8 " 12 " 6 "	1 "
8 " 8 " 9 "	1 "
8 " 8 " 7 "	1 "
6 " 6 " 12 "	10 "
4 " 4 " 12 "	1 "
8 " 12 " 3 "	8 oak.
6 " 12 " 6 "	1 "
6 " 9 " 7 "	1 "
6 " 6 " 9 "	1 "
4 " 15 " 15 "	1 "
4 " 12 " 6 "	1 "
3 " 10 " 7 "	1 "
Engine and boilers.....	1 portable.
2 inch eye bolts	1
1¼ "	5
1½ "	8
1 "	12
¾ "	14
¾ "	7
¾ "	2
½ "	18
¾ "	2
1 inch eye hooks.....	1
Faucets.....	1 for barrel, brass.
¼ inch figures	1 set.
6 " files.....	1 bevel.
16 inch files.....	1 bastard.
14 "	11 "
12 "	10 common flat.
16 "	1 round.
14 "	3 "
12 "	2 "
8 "	1 "

14 inch files.....	6 ½ round.
6 "	1 "
14 "	4 smooth flat.
14 "	3 square.
10 "	1 "
9 "	1 "
7 "	1 saw.
6 "	2 "
4 "	2 "
1 "	1 "
• File handles.....	2 curved, iron.
Fire hooks.....	8
Flatteners	1 handled, anvil.
Flag.....	1 distress.
Flue blowers.....	2
Forges.....	2 blacksmith's.
"	1 portable.
Furnaces.....	1 hot water, complete.
"	1 tallow "
" cylinders.....	6 lead.
" grates.....	12
" (truck).....	1 complete.
"	1 plumbers.
Funnels.....	2 handled.
"	2 small.
Gas brackets.....	11 single.
"	2 double.
Gas lighters.....	3
Gate well screen and frame.....	1
"	1
Guards.....	6 iron, for beam.
Gauges.....	3 for lead pipe.
"	1 recording.
"	2 steam.
"	1 water pressure.
"	1 water, for boiler.
¾ inch x 14 inch gauge glasses.....	16
¾ " 12 "	4
¾ " 8¾ "	4
Gauge cocks.....	2 steam.

Gauge cock plugs.....	3	brass.
3¼ gibbs.....	4	brass, for pumps.
5 "	1	taper, iron.
Glasses.....	3	drinking.
¾ inch goosenecks.....	2	for street washer.
Grappling hooks.....	1	set.
Drag hooks.....	1	
Grate shakers.....	1	stove.
Grindstones and stands.....	5	complete
Hammers.....	1	blacksmith's.
"	14	caulking.
"	1	chipping.
"	2	claw.
"	2	key or copper.
"	5	machinist's.
"	1	stone.
"	1	paving.
Harnesses.....	2	sets.
Hatchets.....	3	
Hay forks.....	1	
Forks.....	3	manure.
Hoes.....	3	ash.
"	7	garden.
"	5	fire, large.
"	2	" small.
" Holding on " bars.....	2	for riveting.
¾ inch hooks.....	1	bolt.
"	4	boiler scale cleaning.
"	2	packing.
"	1	screen, gate well.
"	2	link.
Horses.....	1	
Horse blankets.....	2	
" covers.....	3	oilcloth.
Horses.....	7	wooden, small.
"	2	" large.
"	1	for traveler bars.
1½ inch hose (steam).....	50	feet.
1¼ "	45	"
1 "	65	"

$\frac{3}{4}$ inch hose (steam).....	50 feet.
$2\frac{1}{2}$ inch fire hose.....	18 sections.
".....	100 feet, made up.
1 inch hose (garden).....	66 feet.
$\frac{3}{4}$ ".....	350 "
$\frac{1}{2}$ ".....	12 "
2 inch hose clamps.....	1
3 to $2\frac{1}{2}$ inch hose Red. coupling.....	1
2 to $\frac{3}{4}$ ".....	1 set brass. •
1 inch hose nipples.....	2
$1\frac{1}{4}$ " nozzles.....	1
$\frac{3}{4}$ ".....	2
Hose reels.....	1
Ice bars.....	2
Indicators.....	1 of "H. P."
".....	1 of stroke.
Injectors.....	1
Jackscrews.....	2
$\frac{1}{2}$ inch jets.....	1 for meter tests.
7-16 ".....	1 "
$\frac{3}{4}$ ".....	1 "
5-16 ".....	1 "
$\frac{1}{4}$ ".....	1 "
3-16 ".....	1 "
$\frac{1}{8}$ ".....	1 "
1-16 ".....	1 "
1-32 ".....	1 "
Kettles.....	1 iron.
Keys (street washer).....	9 new style.
".....	2 old "
25 foot ladders.....	2
24 ".....	1
21 ".....	1
20 ".....	2
18 ".....	1
16 ".....	1
15 ".....	1
14 ".....	2
13 ".....	1
9 ".....	3

6 feet ladders	1
10 feet step ladders	1
4 "	8 common.
15 feet rope ladder.....	1
Lead ladles.....	1 large.
"	9 medium.
Ladle rests	1
Lamps	2 bracket.
"	9 hand, lard oil.
"	1 ship.
"	1 "Fresnel."
Lanterns	37 red globe, complete.
"	4 white "
Lantern globes	8 red.
"	12 white.
Lantern burners.....	14
Lantern posts.....	2
Lanterns	3 bull's eye.
Lawn mowers.....	3
Lawn rollers.....	1
Lead pots.....	15
Lead pot hooks	18
Leathers	4 tappet.
Letter boxes.....	2
Levels	1 surveyor's "Y."
"	1 spirit.
Leveling rods.....	1 long.
"	1 short.
Levers.....	1 large wooden.
Linoleum.....	75 square yards.
Lounge	1

MAPS, ETC.

Map books	4 pipe records, small.
"	7 pipe and conn. record, large.
Map	1 Low service pipe district.
"	1 High "
"	1 Meter districts.
" (City)	4 small.

Map	1	water diagram.
" cases	1	tin.
Match boxes	1	
Mattresses	1	
Mats	2	
Mattocks	14	
Mallets	1	
Mauls	3	
3-gallon measures	1	copper.
1-gallon "	1	tin.
1-quart "	1	"
Minute glasses	2	
Mirrors	3	
Mops	3	
Mop wringer	1	
Nipples	28	for fountain—brass.
Nozzles and jets	4	"
Office railing, 6 feet 9 inches high	24	feet.
" 3 feet 6 "	28	"
Oil cup glasses	7	
No. 3 squirt oilers	5	zinc.
Squirt oilers	3	malleable.
Oil can	1	for beam center.
Oil stones	2	
Offset iron	1	for anvil.
"Old Man"	1	for drilling.
Pails	6	iron.
"	53	wooden.
3-gallon pails	1	granite.
4-gallon pails	1	tin.
3-quart pails	1	"
2-quart pails	2	"
Pavement pounders	5	
Picks	155	earth.
"	17	stone.
Pick handles	166	
Pickets	2	surveyor's—wood.
"	2	" small, steel.
Pictures	17	miscellaneous.
Pillows	1	

Pins.....	10	surveyor's.
Pipe cutters.....	2	
Pipe cutter wheels.....	2	
Piston rings.....	4	sets brass, conical. For Cornish pump.
6 inch piston rings.....	1	for Cameron feed pump.
Pinch bars.....	2	
Pike poles.....	1	
Planes.....	2	Jack.
".....	1	beading.
Planks, 5 inches x 14 inches x 18 feet.....	2	oak. For pipe laying.
Plans, etc.....	11	miscellaneous.
".....	71	special castings.
".....	18	boilers.
".....	8	location of water pipe.
".....	47	engines.
".....	112	crib, tunnel and aqueduct.
".....	68	Kinsman and Fairmount Res. [and H. S. pumping station.
".....	58	W. S. Res., pumping works [grounds, etc
3 inch plugs.....	1	for manning hydrant.
Plumb lines.....	2	long.
" bobs.....	2	brass.
Pliers.....	1	cutting.
".....	2	common.
".....	1	gas.
Pokers.....	5	fire, long.
".....	3	stove.
Portfolio.....	1	of water diagrams.
Punches.....	3	center.
".....	8	hollow.
".....	10	solid.
6 inch pump.....	1	centrifugal.
Pumps (force).....	1	plumber's.
".....	1	common.
4 inch pumps.....	2	tin and iron.
3 ".....	3	"
2 ".....	1	"
1½ ".....	1	"
3 ".....	2	brass.

2½ inch pumps.....	1 brass.
1 "	2 "
¾ "	2 "
Pump head.....	1 for Worth. No. 1 water [cylinder, extra.
Pyrometer.....	1
6 foot radiators.....	2 plain.
Radiator shield.....	2
Rakes.....	4 garden.
"	7 lawn.
"	3 stone.
"	1 ice.
Ram.....	1 for tube well.
Ratchets.....	1 double wheel.
3 inch ratchets.	1 lifting, for taking out plungers.
Record boards.....	1 wooden.
2 inch reamers (round).....	1
1 "	4
¾ "	5
⅝ "	11
1 inch reamers (flat).....	1
¾ "	1
Rounding irons.....	1 handled.
"	1 anvils.
2 inch x 8 ft. plunger rods.....	2 finished rods for cold water [cylinder of Cornish pumps.
2 " 19 ft. "	2 finished rods for cold water [cylinder of Cornish pumps.
7 inch rope.....	411 feet.
6 "	85 "
5 "	120 "
4½ "	225 "
4 "	561 "
3½ "	202 "
3 "	177 "
2½ "	421 "
2 "	100 "
1½ "	500 "
Ropes.....	2 for lowering pipe.
" 25 feet	2 with hooks, for meters.
Rollers	4 for taking out plungers.

Rollers	5 wooden.
Resin box	1
Reels	1 for plumb lines.
Safes	1
Safety valves.....	1 pop.
Saws	10 hand.
"	1 keyhole.
"	4 crosscut, large.
"	1 " hand.
"	1 hack.
Hack saw frame.....	1
Screens	4 window.
" 3 x 13 feet	1 "
Scales	1 letter weight.
"	1 counter.
"	6 platform, small.
"	1 wagon.
"	1 railroad track.
"	1 steel yard.
Scale scrapers, 20 feet.....	2 for boilers.
Scrapers	1 spiral, for boiler flues.
12 inch screw drivers.....	5
8 "	2
6 "	1
16 scoop net bows.....	2
Scythes	3
Scythe snaths.....	4
Seal stamp "C. W. W."	1
Settees, 4 feet long.....	7 iron.
1¼ inch set bolts.....	12
1½ "	4
1 "	14
¾ "	10
¾ "	23
¾ "	13
½ "	2
Shaker bars	3 for grates.
Shackle "	2
Shave hooks.....	1
Shears.....	1 cloth.

Shears	1	tinners'.
"	1	lamp.
Shovels.....	2	coal—long.
"	7	No. 2.
"	3	No. 1.
"	12	dirt—short.
"	7	tunneling—long.
"	9	tunneling—short.
"	1	coal stove.
"	4	snow.
"	4	scoop or long shovel.
Sickles.....	4	
Sign.....	1	Water Rent.
Slates.....	6	Single.
"	9	double.
"	3	book.
Sieves.....	1	sand.
Sledges.....	19	
"	6	stone.
"	1	for beating packing.
Sledge handles.....	18	
Sleigh runners.....	1	set for wagon.
Slice bars.....	1	
Snap hooks.....	1	
Soil cups.....	1	
Soldering coppers.....	1	
Solder pots.....	2	
Solder ladles.....	2	
Sounding poles.....	1	
Spades.....	3	
Spittoons	21	
Spuds.....	1	large.
Squares	1	carpenter's.
"	3	levelling T.
Stands.....	8	for traveller bars.
"	1	for stop cock boxes.
Stamps.....	1	not in use.
"	1	bill.
"	1	voucher register.
"	2	number.

Stamps	1 " turned off."
"	1 refund.
Stencils.....	4 sets letter.
Stone hooks.....	1 set.
Stools.....	9 desk.
"	1 common.
"	7 foot.
Stoves.....	6 soft coal.
Straight edges.....	1 steel—small.
"	3 wood—large.
"	2 wood—small.
Swimming suit.....	1
Syringes or filling tubes.....	1 tin.
Syphon	1 boiler.
Tables.....	3 common—small.
"	3 draughting—complete.
"	2 office—large.
"	4 office—small.
"	1 oval.
"	1 map, books—large.
Tally sheets	1 iron.
Tamping bars.....	13
60 gallon tank (oil).....	1 with pump.
50 " "	2 with faucet.
100 cubic foot tank.....	1 for meter tests
66 feet tape lines.....	1 cloth.
50 "	9 cloth.
100 "	1 steel.
50 "	1 steel
12 inch tapping clamps.....	1
8 "	1
6 "	2
Tapping machines.....	2
"	1 pressure—complete.
Tapping machine drills and taps, 1 inch.....	1
" " $\frac{3}{4}$ "	1
" " $\frac{5}{8}$ "	2
" " $\frac{1}{2}$ "	1
2 inch taps (plugs).....	2
1 " "	2

$\frac{3}{4}$ inch taps (plug)	1	
3-16 " "	1	
$1\frac{1}{2}$ inch taps (taper).....	1	
$1\frac{1}{4}$ " "	1	
$1\frac{1}{8}$ " "	1	
1 " "	3	
$\frac{3}{4}$ " "	1	
$\frac{5}{16}$ " "	1	
$\frac{1}{2}$ " "	1	
$\frac{3}{8}$ " "	1	
Templates	1	for bottom of Worthington [pump water cylinder]
36 inch templates.....	1	
22 "	1	
9 "	1	for steam pipe flanges.
7 "	2	" "
6 "	1	" "
5 "	2	" "
4 "	2	" "
3 "	3	" "
Templates.....	14	for meter gaskets.
Tee squares.....	2	draughtsman's.
Thermometers	4	
Timber hooks.....	1	set—large.
Timber trucks	1	
Tongs.....	6	blacksmith's.
"	1	chain.
3 inch tongs, extension.....	3	pipe.
2 " "	3	"
1 " "	3	"
$\frac{3}{4}$ " "	4	"
$\frac{1}{4}$ " "	1	"
4 "	2	jaw.
Tongs.....	1	rivet.
"	1	coal—for stoves.
Tool bags	1	plumber's.
Torches (coal oil).....	15	hand.
"	1	plumber's.
Towels.....	8	
Trans.....	5	for setting engine valves.

Transit.....	1	surveyor's—complete.
Transit tripod.....	1	small—extra.
Traveler bars.....	3	
" bar wheels.....	3	
" bar, hook and clevis.....	3	
" bar, clevis and eye bolt.....	2	
Triangles.....	2	draughtsman's,
Trowels.....	3	mason's.
Trolly or truck.....	1	for crib boat.
Turn pins.....	1	
Turn table plates.....	5	complete.
" balls.....	41	
Trucks.....	1	platform.
Trucks.....	1	hand.
Turn buckles.....	1	
9½ inch turn buckles.....	1	
Turn buckle and hook.....	1	
Valves (rubber).....	133	old—for Worthington pump.
Valve plates.....	65	large—for Worthington pump.
" caps.....	51	small— "
" stems.....	4	brass— "
" seats.....	5	" "
Valves (rubber).....	1	for Cornish pump.
" ".....	4	for Worthington feed pump.
Valve seats.....	32	" "
Vises.....	4	bench.
".....	1	carpenter's
".....	2	hand.
".....	3	pipe.
".....	1	machinist's.
Wagons.....	4	
Wagon lap robes.....	1	rubber.
Ward robes.....	1	
Washer cutter.....	1	
Waste baskets.....	9	
Washing out poker.....	8	for boilers.
¾ inch washing out pipes.....	3	for boilers.
Water cooler.....	1	zinc.
Water cooler.....	1	stone.
Wedges (iron).....	23	common.

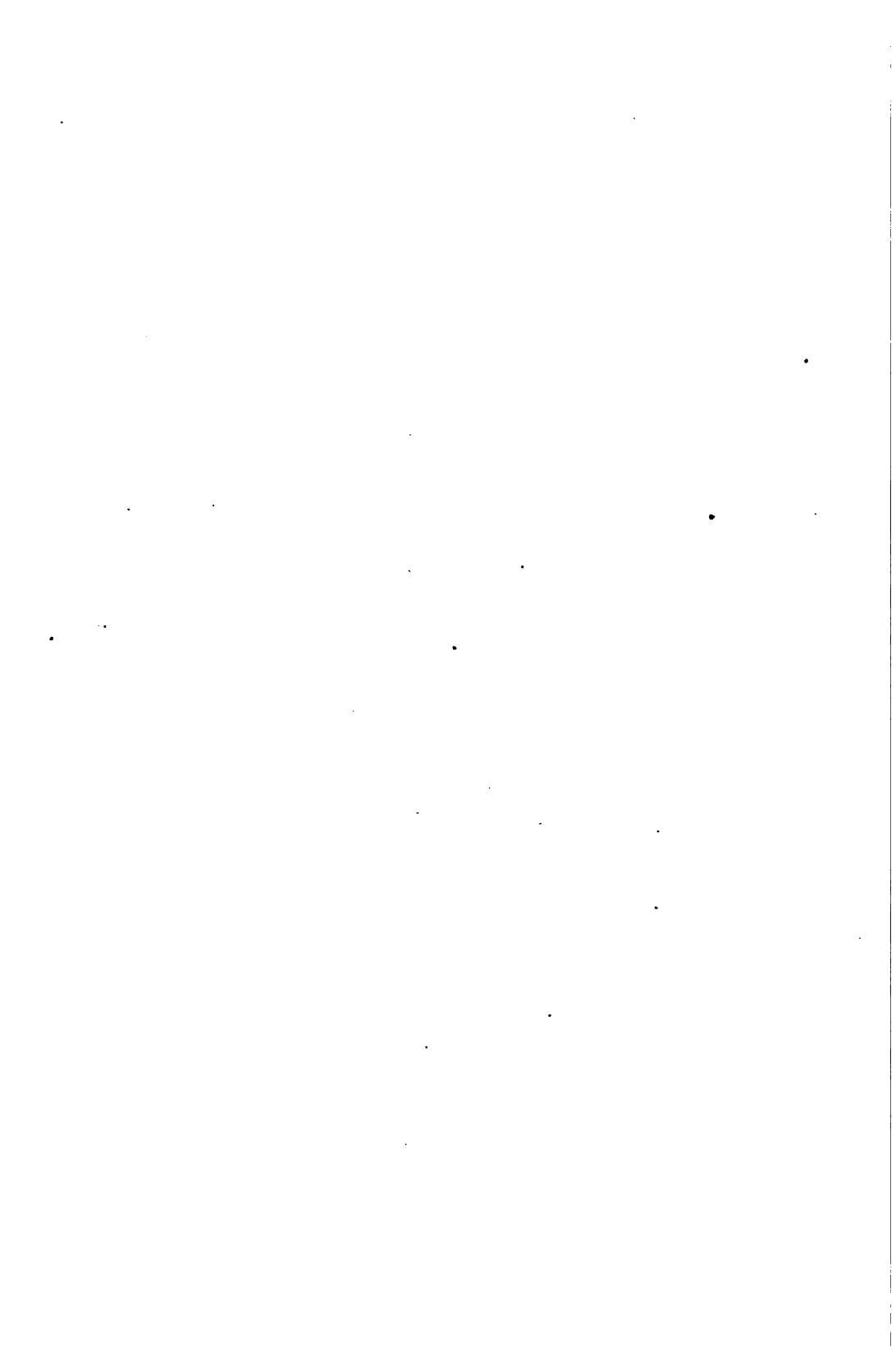
Wedges.....	3	stone.
Winches.....	1	complete.
6 inch wheels.....	3	for globe valves.
Wheels.....	1	for feed water valves.
Wheel-barrows.....	3	iron.
“.....	19	wooden.
Whet stones.....	4	
Wiping cloth.....	1	plumber's.
Wrenches.....	7	for Cornish pump.
30 inch wrench.....	1	for suction valve.
3 inch bent wrench.....	1	
2¼ “.....	1	
1½ “.....	1	
1¼ “.....	1	
4 inch box wrenches.....	3	
3 “.....	1	
2½ “.....	1	
2¼ “.....	1	
2 “.....	2	
1½ “.....	1	
1¼ “.....	1	
1½ “.....	1	
1¼ inch cock wrench.....	1	
1 “.....	2	
¾ “.....	1	
¾ inch blow-off wrenches.....	2	for boiler.
Hose wrench.....	1	
Wrenches.....	1	for 6 inch Mathews' hydrant,
“.....		[rod and nozzle.
“.....	8	for 4 inch Mathews' hydrant.
“.....		[rod and nozzle.
“.....	5	for 6 and 4 inch Mathews' hy-
“.....		[drant, rod and nozzle.
“.....	1	for 6 and 4 inch Mathews' hy-
“.....		[drant, inside stuffing box.
“.....	1	for 4 inch Mathews' hydrant.
“.....		[inside stuffing box.
“.....	2	for 6 inch Mathews' hydrant.
“.....		[inside stuffing box.
“.....	1	for valve seat Mathews' hyd.

Wrenches	1	for valve seat of Mathews'
"		[hydrant—long.
"	1	for stuffing box of Manning
"		[hydrant.
"	1	for inside stuffing box plate
"		[for 6 inch Mathews' hydrant.
"	1	for inside stuffing box plate
"		[for 4 inch Mathews' hydrant.
"	1	for 4 inch Cincinnati hydrant.
21 inch Monkey wrench.....	1	
20 "	2	
18 "	1	
15 "	3	
14 "	2	
12 "	11	
10 "	5	
Wrench.....	1	large adjustable key.
23/4 x 1 1/2 inches nut wrench.....	1	double ended.
2 1/2 x 1 3/4 "	1	"
2 x 1 3/4 "	1	"
1 3/4 x 1 1/2 "	4	"
1 3/4 x 1 1/2 "	1	"
1 3/4 x 1 1/4 "	1	"
1 1/2 x 1 1/4 "	1	"
1 3/8 x 1 1/4 "	1	"
1 1/4 x 1 "	2	"
1 1/8 x 1 "	1	"
1 x 3/4 "	1	"
1 x 3/4 "	1	"
7-16 x 3/8 "	1	"
3 3/4 inch nut wrench.....	1	single ended.
3 1/4 "	2	"
3 "	2	"
2 1/2 "	1	"
2 1/4 "	2	"
2 1/4 "	1	"
2 "	3	"
1 3/4 "	4	"
1 3/4 "	2	"
1 1/2 "	5	"

1½ inch nut wrenches.....	2	single ended.
1¼ ".....	6	"
1½ ".....	2	"
1 ".....	4	"
¾ ".....	1	"
¾ ".....	2	"
Wrenches.....	2	reservoir.
½ x ¾ set screw wrenches.....	2	
2½ x 2¼ inch S wrench.....	1	
2½ inch S wrench.....	1	
2 ".....	1	
1½ x 1 3-16 inch S wrench.....	1	
¾ inch S wrench.....	1	
¾ x ½ inch S wrench.....	1	
3¼ inch socket wrench.....	1	
3 ".....	1	
2¾ ".....	2	
2¼ ".....	4	
2½ ".....	2	
2 ".....	2	
1¾ ".....	3	
1¾ ".....	2	
1½ ".....	4	
1½ ".....	3	
1¼ ".....	2	
1¼ ".....	1	
1 ".....	4	
¾ ".....	1	
Socket wrench.....	1	for under water—long.
1½ inch socket wrench lever.....	1	
¾ " ".....	1	
Span wrenches.....	5	
Sprinkler wrenches.....	3	
Stop cock wrenches.....	8	new style.
".....	3	old style.
3 inch stop cock wrench.....	1	
Tap wrenches.....	11	large.
".....	2	small.
".....	1	double lever.
Air-cock wrenches.....	2	

Claw wrench.....	1 for globe valve.
30 inch valve wrenches.....	4 lever.
6 inch combination wrench.....	1 T handle.
6 inch valve wrenches.....	11 "
3 ".....	3 "
30 inch valve wrench wheel.....	1
30 " levers.....	3
20 inch Scoowden valve wrench.....	1 lever.
16 " ".....	1 "
16 " ".....	1 T handle.
8 " ".....	1 lever.
6 " ".....	1 "
4 " ".....	1 T handle.
Fountain wrench.....	1
Yarning tools.....	11

Report of Workhouse.



OFFICERS.

BOARD OF WORKHOUSE COMMISSIONERS.

ROBERT E. MIX PRESIDENT.

F. W. PELTON VICE PRESIDENT.

A. McALLISTER.

A. T. VAN TASSEL.

A. P. WINSLOW.

OFFICERS.

W. D. PATTERSON SUPERINTENDENT.

JOHN A. McINTOSH DEPUTY SUPERINTENDENT.

C. L. HOTZ BOOK-KEEPER.

J. C. WHITE ASSISTANT BOOK-KEEPER.

DR. E. H. JEWITT HOUSE PHYSICIAN.

MRS. M. A. PATTERSON PRINCIPAL MATRON.

HOUSE OF REFUGE DEPARTMENT.

ALEXANDER McBANE DEPUTY SUPERINTENDENT.

JOHN S. CRITCHLOW TEACHER.

MRS. E. WORTHINGTON TEACHER.

MRS. DORA DOTY TEACHER.

CLEVELAND, O., January, 1889.

*To the Honorable President and Members of the City Council of the City
of Cleveland, Ohio:*

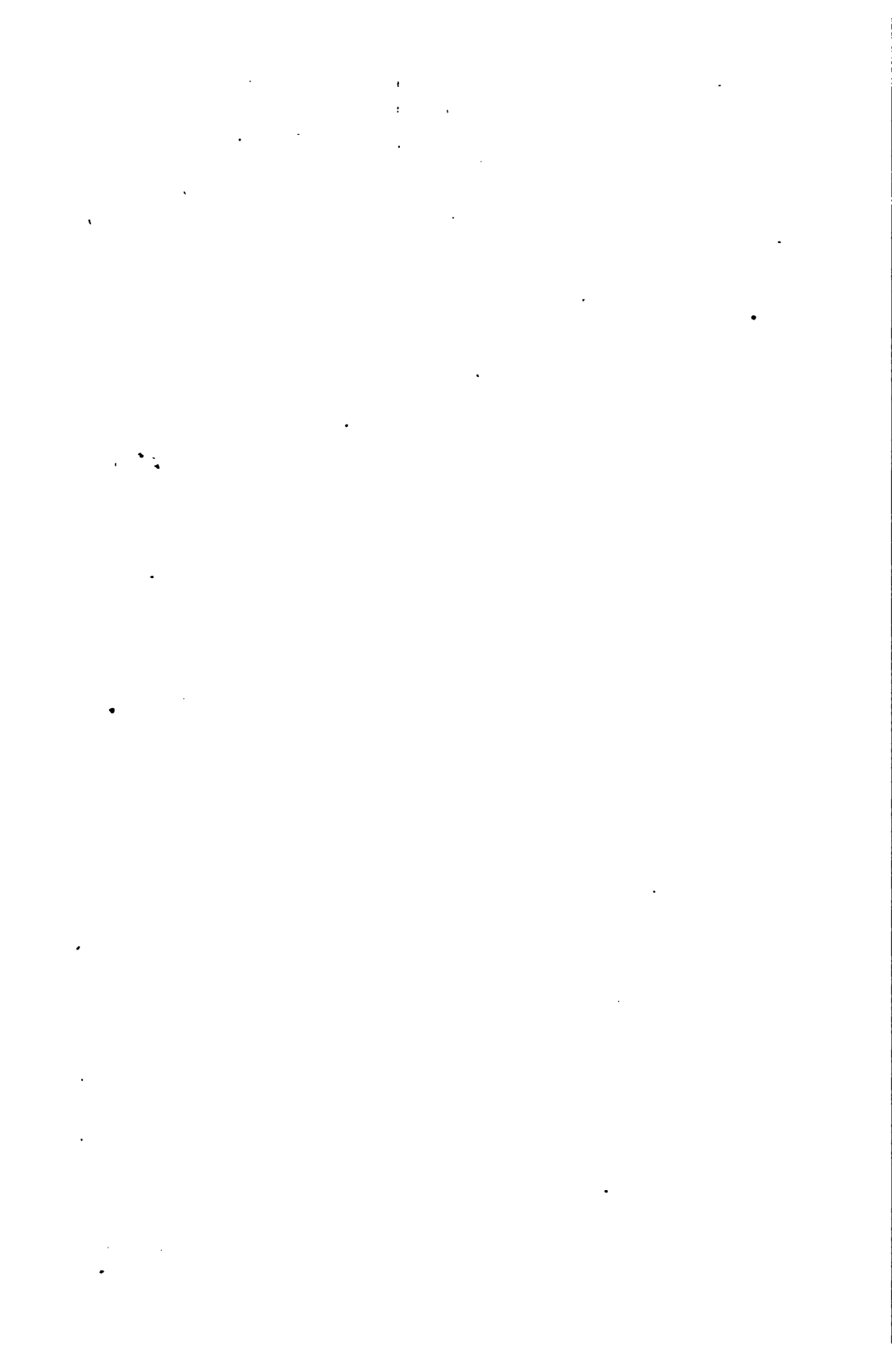
GENTLEMEN:—I have the pleasure herewith to submit to your Honorable Body the Annual Report of the Workhouse, House of Correction and Refuge, for the year closing December 31, 1888, as made my duty by statute.

Most respectfully submitted,

W. D. PATTERSON,

Sup't and Sec'y.

Directors' Report.



Directors' Report.

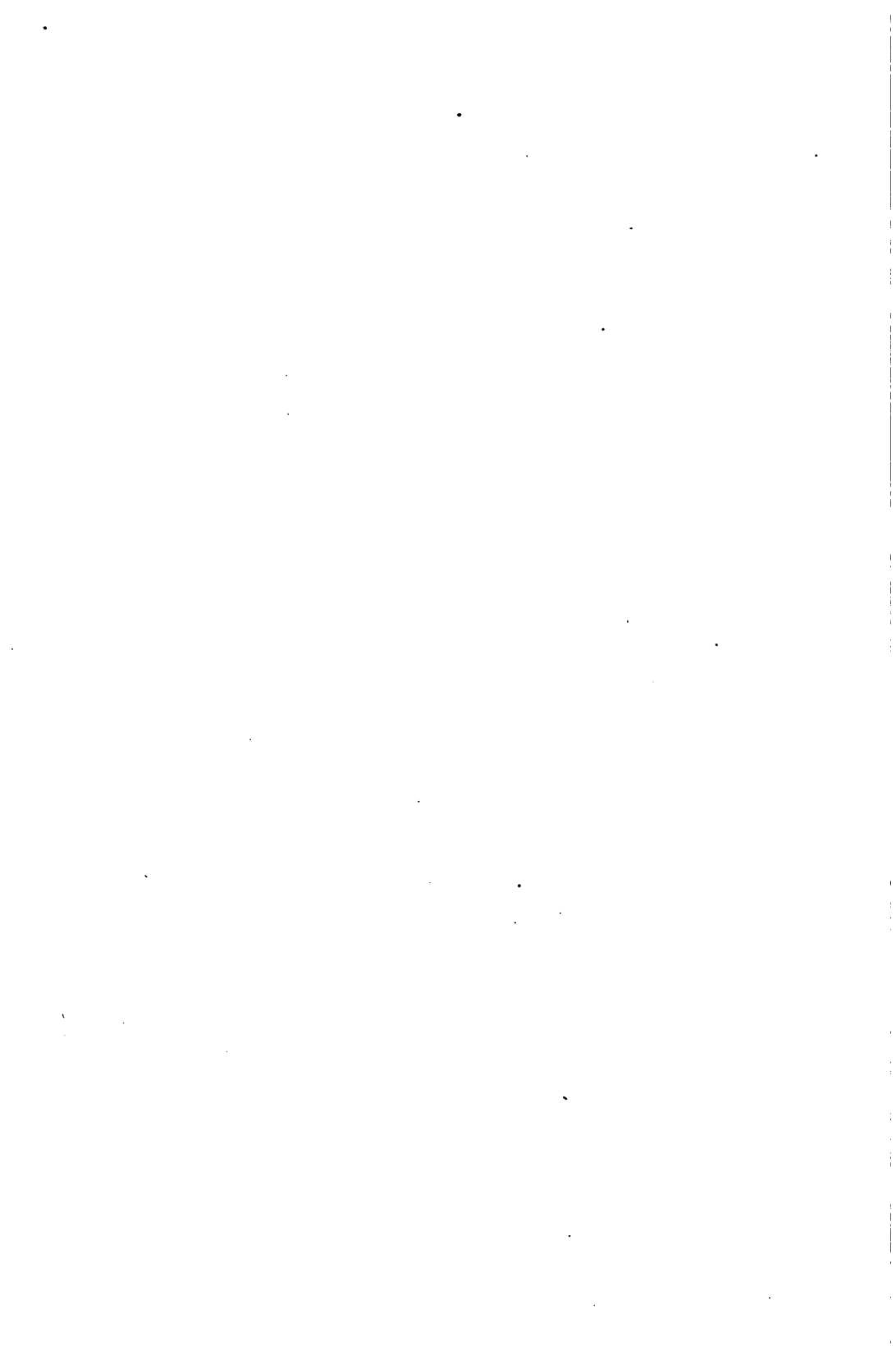
To the Honorable Mayor and City Council of the City of Cleveland, Ohio :

GENTLEMEN :—We most respectfully submit for your consideration this the Eighteenth Annual Report of the Superintendent of the Workhouse, and House of Refuge and Correction, for the year closing December 31, 1888. With this we also submit a condensed statement of the operations of the institution for the five years past, commencing with 1884, showing receipts and disbursements, and all verified by an expert accountant of our own choice ; his findings are submitted herewith.

R. E. MIX,
F. W. PELTON,
A. McALLISTER,
A. P. WINSLOW,
A. T. VAN TASSEL,

Directors.

Superintendent's Report.



Superintendent's Report.

CLEVELAND, January, 1889.

To the Honorable Board of Workhouse Directors :

GENTLEMEN:—As required by law, I take pleasure in herewith presenting to you this, my Seventeenth Annual Report, being for the year 1888, showing in clear and concise financial statements the business of the institution for the year; and also an exhibit of the financial affairs for the five years, closing with December, 1888, all of which is verified by an expert accountant of your own selection, and whose certificate will be found preceding the statements, together with statistical tables for the year.

The Workhouse was erected by the City Council during the years 1868, 1869 and 1870, and was opened for the reception of prisoners—the first one being received March 3d, 1871. In June, 1870, a Board of Workhouse Directors was appointed, and the institution was then transferred to said Board.

By direction of City Council, soon after the opening of the institution, authority was given the Board of Directors to set apart a portion of the Workhouse building to be known as the House of Refuge; this was accordingly done, and on June 7, 1871, the first inmate for that department was received.

These two institutions have continued up to the present under the same roof and the same general management, notwithstanding the many efforts that have been made for their separation, and as we write the subject is still under consideration by the City Council.

While the Workhouse receives adult offenders of both sexes, the House of Refuge, at present, only receives male juvenile offenders, and though both classes of persons are under the same general management, their government and discipline are entirely different; the Workhouse being punitive, with labor for reformation, while the House of Refuge contemplates education and reformation. If wayward youth are to be reformed it must be through and by education and christian influences.

The financial accounts and statistical tables serve to show that crime and wrong-doing have kept pace with the growth of the city, as evidenced by the number of persons admitted since the opening of the House. At the same time the business growth is indicated by comparing the cash paid into the treasury the first year, which amounted to the sum of twelve hundred and thirty dollars and ninety-eight cents (\$1,230.98), with the year just closed, in which there was paid into the treasury of the city one hundred and six thousand six hundred and ninety-two dollars and seventy cents (\$106,692.70).

Improvements have been made during the year, all considered necessary, amounting to the sum of six thousand one hundred and fifty-one dollars and forty cents (\$6,151.40), consisting of the following: A new brick building for a bakery, and commodious oven in the same, the remodeling of the former room, and converting it into a spacious and neat dining room for officers and employes; new wooden ceilings in the work rooms in House of Refuge, and one new floor in the same; a new floor in female ward kitchen. A substantial five-foot circular brick culvert was built through the Workhouse grounds, south of the buildings, so that the ravine may be filled up, and in time be a valuable and available space for buildings or yards. A general overhauling of the old steam boilers—patching them, new flues, and repairs to others, resetting of boilers, and rebuilding of furnaces.

A thorough and complete set of new laundry machinery was put in, giving the institutions what was so much needed—a very neat and complete laundry outfit. For the better lighting of the front grounds and walks, lamp posts were put up, at a small expense; this has

proven a necessary and valuable improvement, and money wisely spent. For better fire protection additional fire hose was purchased. So now, we have one hundred and fifty feet of Eureka fire hose for guarding against fire to front buildings. This, with the water supply introduced previously, and the stand pipes in shops and hose to each, gives us very ample fire protection.

The culvert improvement and laundry machinery were not completed until December, so that the payment for the same will show in the accounts of the ensuing year.

All these improvements have been under the supervision of the House Committee of the Board.

The records show that since the opening of the Workhouse there have been received 21,140 males and 4,591 females, total 25,731 persons; and during the year just closed there have been received 2,057 males and 400 females, total 2,457 persons; and that we close the year with 290 males, 54 females, a total of 344 persons. Many of the foregoing of both sexes have been sent up over and over again, from two to forty-five times. Is this the part of wisdom toward the offending? Is it justice to the wrong-doer, and to our fair City? Is it not an expensive burden to the people, and do not its palpable errors call loudly for a better way?

The problem of dealing with the violators of law and their recovery to citizenship and society is one of difficult solution.

From prepared tables in connection with this report it would seem that our laws, as enforced, have so far failed in the reformation of a vast majority of the cases that have come under its operations. The frequency of arrests, trials and conviction of the same offender, and their incarceration in the Workhouse is presumptive evidence, at least, that the administration of the law in such cases has failed to accomplish their reformation. And if the experiences through which these persons have passed have not been productive of repentance and reformation, is it not the part of wisdom to abandon the old system and inaugurate a new course of procedure for the recovery of the wayward, vicious and profligate?

The following will serve to illustrate the utter folly and the enor-

mous expense in thus experimenting with old-time offenders, though mostly young in years :

A, a young man, previous commitments, 43 times, twice during this year.

B, a young man, 23 times in the past, five times during the year.

C, a middle aged man, 18 times, once during past year.

D, a young man, 45 times, and three times during the year.

E, an old woman, 45 times in the past, and five times in the year.

K, a woman under fifty years of age, 36 times in the past and six times in the year.

L, a woman under 30 years, 26 times.

M, a woman under 40 years, 27 times.

All these are for intemperance. We could multiply and add to the above, but this will serve to confirm what I have said, and should prove conclusively that the course as now pursued is a farce and failure. The considerate can see the imperative necessity for a new system for such offenders. The remedy is close at hand and only requires that the thoughtful should act in the matter, and have the laws so changed that an indeterminate sentence shall apply, based upon a thorough reformation, whether that condition may be evidenced in six months, one year, or five or more years. We quote from our report of 1882 :—

“A mistaken philanthropy, so-called, may say this would be excessive when the nature of the offense is considered. Our answer is, that it would be economy in the end, and better for the individual, physically, mentally and morally, and better for the city, financially. Would it not be better in results that these twenty or twenty-five sentences and fines should be served at one time, than to be distributed over a period of ten, fifteen or twenty years? These intervals between sentences, as now under existing laws, are only so many helps in a profligate course, and so many hindrances in the work of reformation. Under an indeterminate sentence, where the offender would be committed until reformed, there is time for meditation and culture, and the individual is made to contribute

“largely to his or her support; and all will admit that crime should be “made to pay its own expenses.”

It is vain to proceed further on the old line and to expect new results. The new line of policy should be the indeterminate sentence system. Such a system as is here suggested is now in operation in some of the states with good results; it should certainly commend itself to all good citizens, and especially to those who have studied crime, criminals, penalties and results.

Are these persons being elevated, lifted up to a higher manhood, are they made better? We fear that in but comparatively few cases are they morally elevated. We affirm that the whole system of laws under which prisoners are sentenced to the Workhouse is wrong in spirit and practice, though wisely and humanely intended. Years of experience in dealing with this class of persons only serves to strengthen the conviction that if we would accomplish permanent and lasting results in the reformation of these unfortunates that a more rigid system of laws should be adopted as speedily as possible, looking to an increased penalty with each repetition of the offense, or an indefinite sentence that would separate the offender from outside evil influences for a greater length of time, and finally, that would contemplate their reformation before they should be discharged.

Many of the young men under twenty-five years, and some of the young women, committed to our care are without education, not able to read or write, and are utterly destitute of the elements of man and womanhood; they lack all the refining influence and culture that comes with an education, and have by reason of home surroundings been deprived of home culture and training for good that is so essential in making them subjects for good society and self-support.

In the great multitude of prisoners convicted and sentenced to the Workhouse during the year, it not infrequently occurs that young boys under sixteen years, upon a first conviction, are sentenced to pay a small fine, or the costs in the case, and in default thereof they are committed to the Workhouse. This committal to the Workhouse is an absolute wrong to the boy, if not a positive and lasting injury, by reason of the enforced association with those older in years, and

adepts in all manner of criminal conduct. Better far that these youths should receive an admonition from the Court, and a remittal of fine or costs, or both, as the case may be, and the boy be allowed to go home with the injunction, "go, and sin no more," than that he should be subjected to such environments in his early years.

In closing, I would emphasize these convictions in the hope that they may crystalize, and that they may serve as a stimulus prompting to such action as will bring about the following humane and commendable results :

Removal of the House of Refuge to a farm (not the Pest House) ; that the laws pertaining to Workhouse sentences be changed to the indeterminate sentence, with the parole discharge provision ; that eight hours should be a day's labor in prisons ; and compulsory education for all persons under twenty-five years.

HOUSE OF REFUGE.

Since its organization it has been closely associated with the Workhouse, and, notwithstanding the many well-directed efforts looking to a separation of the Refuge from the Workhouse, and complaints on the part of good citizens, and petitions also for such separation by philanthropic men and women, the House of Refuge remains, at this writing, where first organized.

We entered the year with 131 boys and 2 girls, total 133 ; received during year, males 40, making a total of 173. Discharged in same time 2 females, and 66 males, leaving at the close of the year 105 boys.

Early in the year the Board of Managers decided that owing to surroundings, it was not advisable to continue to receive females into this department, and since that time none have been received. The school has continued throughout the year under the same efficient officers and teachers ; and while we condemn the situation by reason of cramped quarters and want of sufficient space for play-grounds and out-door exercise, we are confident that much good has been accomplished in our schools, in the moral elevation and culture of the boys committed to our care. The fault with these erring boys is not

so much theirs as in the home surroundings, and lack of training and education in all that is right, truthful and pure.

RELIGIOUS.

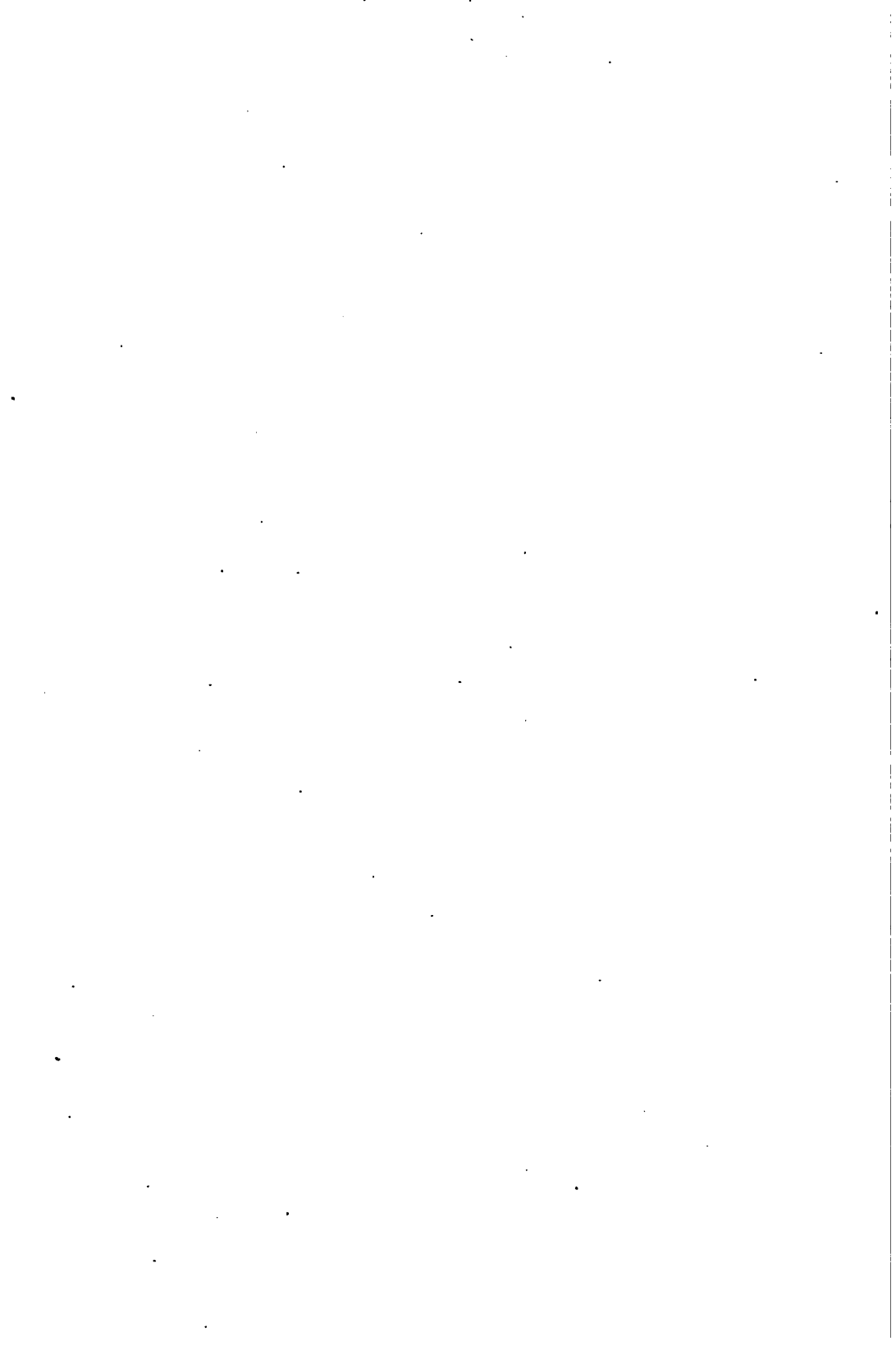
Regular religious services have been kept up throughout the year, both Protestant and Catholic, by Protestant ministers of the city serving on invitation, and by a regular Catholic clergyman, who has been serving for ten years in the same capacity, and we hope that brighter and better things are in store for these wards of the city, and that the teachings they have here received may so influence their future as to lead them to useful and correct manhood.

Grateful for your hearty co-operation, gentlemen of the Board, and for your individual confidence and support at all times,

I am yours, etc.,

W. D. PATTERSON,

Superintendent.



CLEVELAND, O., February 21, 1889.

To the Board of Directors of the Cleveland Workhouse and House of Correction:

At your request, I have thoroughly examined the books of said Workhouse and House of Correction, and find them correct, and the following a true statement of the financial condition for the last five years.

B. W. SMITH,

Book-keeper.

STATEMENT OF THE WORKHOUSE, HOUSE OF REFUGE AND

1889. Jan'y 1.	ASSETS.		
	Cash in City treasury.....	\$ 7,986 98	
	Inventory.....	65,358 13	
	Bills receivable.....	30,098 97	
			\$ 103,444 08
1884. Jan'y 1.	ASSETS.		
	Cash on hand	\$ 1,513 38	
	Cash in City treasury.....	10,766 09	
	Inventory.....	44,043 69	
	Bills receivable.....	10,350 91	
			\$ 66,674 07
	Net resources, 1889.....	\$ 70,910 35	
	Net resources, 1884.....	41,298 06	
	Excess of resources, 1889.....	\$ 29,612 29	
	Tax received from City of Cleveland for five years.....	\$ 67,732 63	
	Less excess of 1889.....	29,612 29	
	Gross excess, expenses for last five years	\$ 38,120 34	
	Paid Cuyahoga County Commissioners.....	\$18,476 33	
	Fines collected.....		
	Permanent impr'vem'ts, five years \$11,277 86		
	Less 10%..... 1,127 78		
		\$10,150 08	
			\$ 28,626 41
	Net cost for five years.....		\$ 9,493 93

CORRECTION FOR FIVE YEARS, ENDING DECEMBER 31, 1888.

LIABILITIES.			
1889.			
Jan'y 1.	Bills payable	\$ 32,533 73	
	Excess of resources.....	70,910 35	
			\$ 103,444 08
LIABILITIES.			
1884.			
Jan'y 1.	Bills payable.....	\$ 25,376 01	
	Excess of resources.....	41,298 08	
			\$ 66,674 07

FIVE-YEAR STATEMENT OF RECEIPTS AND DISBURSEMENTS.

	RECEIPTS.		
1884. Jan. 1.	Cash in hand of Superintendent.....	\$ 1,513 38	
	Cash in hand of City Treasurer.....	10,766 09	
	Cash receipts from tax levied.....	5,000 00	
	Cash receipts for the year.....	73,541 62	
			\$ 99,821 09
1885. Jan. 1.	Cash in hand of Superintendent.....	648 13	
	Cash in hand of City Treasurer.....	2,436 64	
	Cash receipts for the year.....	99,657 41	
	Cash receipts from tax levied.....	12,709 22	
	Cash receipts from bonds sold and premium.....	20,815 00	
			136,266 40
1886. Jan. 1.	Cash in hand of Superintendent.....	924 22	
	Cash in hand of City Treasurer.....	4,912 15	
	Cash receipts for the year.....	119,662 57	
			125,498 94
1887. Jan. 1.	Cash in hand of Superintendent.....	1,547 48	
	Cash in hand of City Treasurer.....	9,833 63	
	Cash receipts for the year.....	105,766 61	
	Cash receipts from tax levied.....	13,564 49	
			130,712 21
1888. Jan. 1.	Cash in hand of Superintendent.....	4,323 53	
	Cash in hand of City Treasurer.....	5,167 77	
	Cash receipts for the year.....	102,369 17	
	Cash receipts from tax levied.....	15,724 06	
			127,584 53
			\$ 610,883 17

FIVE-YEAR STATEMENT OF RECEIPTS AND DISBURSEMENTS.—*Continued.*

DISBURSEMENTS.			
1884. Dec. 31.	Cash paid by warrants on City Treasury.....	\$ 87,736 32	
	Balance on hand with City Treasurer.....	2,436 64	
	Balance on hand with Superintendent.....	648 13	
			\$ 90,821 09
1885. Dec. 31.	Cash paid by warrants on City Treasury.....	130,430 03	
	Balance on hand with City Treasurer.....	4,912 15	
	Balance on hand with Superintendent.....	924 22	
			136,266 40
1886. Dec. 31.	Cash paid by warrants on City Treasury.....	114,117 83	
	Balance on hand with City Treasurer.....	9,883 63	
	Balance on hand with Superintendent.....	1,547 48	
			125,498 94
1887. Dec. 31.	Cash paid by warrants on City Treasury.....	121,220 91	
	Balance on hand with City Treasurer.....	5,167 77	
	Balance on hand with Superintendent.....	4,323 53	
			130,712 21
1888. Dec. 31.	Cash paid by warrants on City Treasury.....	119,297 55	
	Balance on hand with City Treasurer.....	7,866 98	
			127,584 53
			\$ 610,883 17

STATEMENT FOR FIVE YEARS, ENDING
DECEMBER 31, 1888,

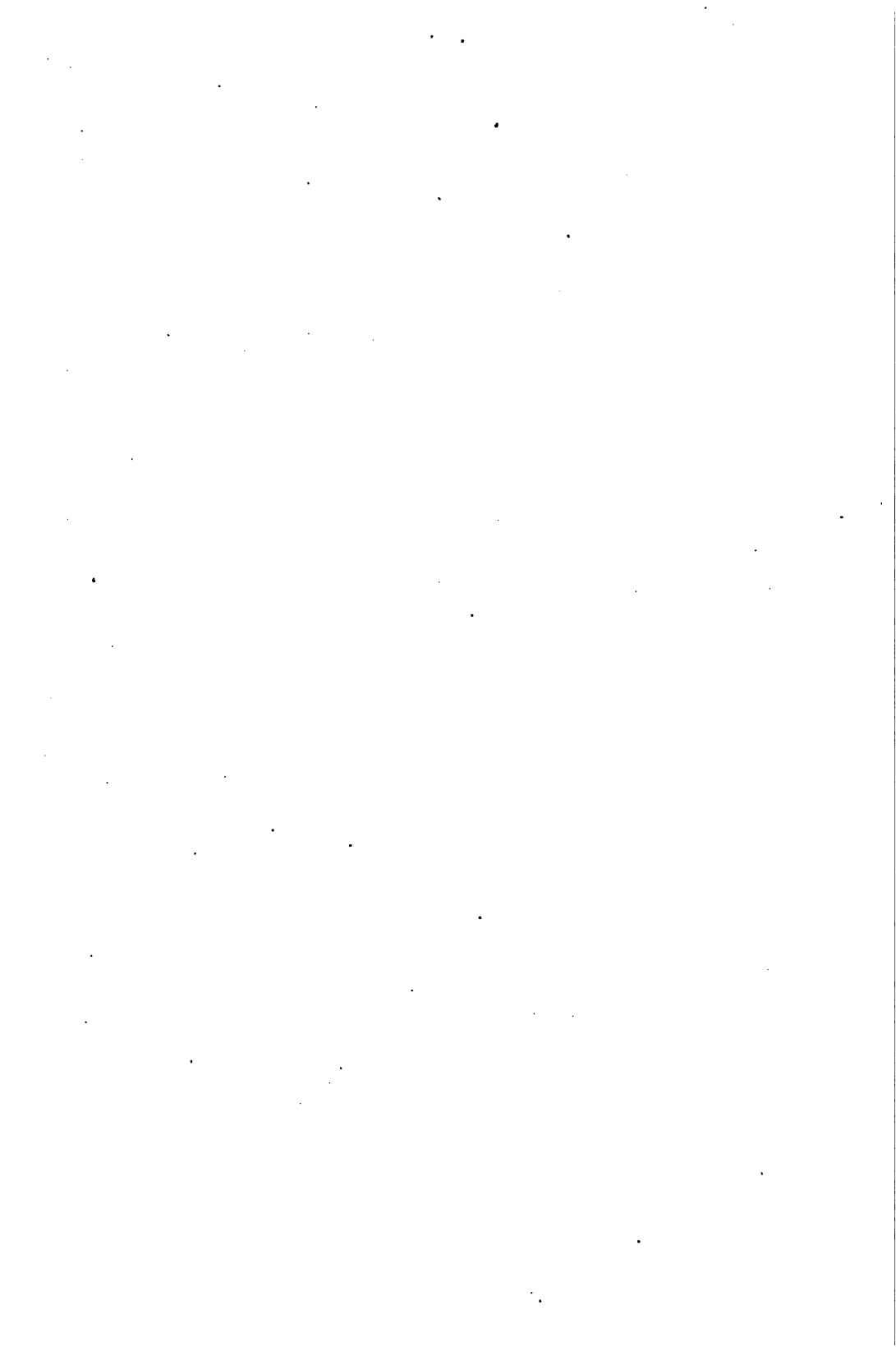
Showing Expenses and Profits of Cleveland Workhouse and House
of Refuge.

EXPENSES.		EXPENSE.	GAINS.
COST OF—			
Shoe account.....		\$ 4,456 71	
Salaries.....		81,817 03	
Sundry supplies.....		10,389 08	
Furniture and fixtures.....		3,368 56	
Clothing and bedding.....		13,034 11	
Fuel and light.....		20,046 60	
Medical attendance and supplies.....		3,874 96	
Hay and feed.....		3,018 41	
Improvement and repairs.....		9,539 82	
Special improvement.....		11,277 86	
Engine account.....		773 78	
Boiler account.....		2,069 04	
Brush implement.....		3,175 42	
General implement.....		1,711 81	
Provision account.....		91,023 72	
Profit and loss account.....		183 68	
Net gain over all expenses in 1885.....		95 83	
GAINS.			
In manufacture of brushes.....			\$ 106,908 05
In live stock.....			20 49
In fines—city cases.....			11,254 73
In boarding prisoners.....			94,706 16
In manufacture of shoes.....			1,791 54
In labor of boys.....			6,959 28
Net expense of maintaining Workhouse and House of Refuge.....			38,216 17
		\$259,856 42	\$ 259,856 42

STATEMENT FOR FIVE YEARS, ENDING
DECEMBER 31, 1888,

Showing the Running Expenses and Profits of Cleveland Workhouse
and House of Refuge.

COST OF—		EXPENSES.	EXPENSE.	GAINS.
	Furniture and fixtures.....		\$ 3,368 56	
	Clothing and bedding.....		13,034 11	
	Sundry supplies.....		10,389 08	
	Shoes.....		4,456 71	
	Medical attendance and supplies.....		3,874 96	
	Salaries.....		81,817 03	
	Provision.....		91,023 72	
	Fuel and light.....		20,046 60	
	Engine supplies.....		773 78	
	Hay and feed.....		3,018 41	
	Boiler account.....		2,069 04	
	Improvement and repairs.....		9,539 82	
	GAINS.			
	In manufacture of brushes.....			\$ 106,908 05
	In manufacture of shoes.....			1,791 54
	In permanent improvement.....			11,277 86
	In boarding prisoners.....			94,706 16
	Net current expenses.....			28,728 21
			\$243,411 82	\$ 243,411 82



BASE YEARS, ENDING DECEMBER 31, 1888.

Inventory.	Assets.		Profit and Loss.	
	Resources.	Liabilities.	Expenses.	Gains.
	\$.....	\$.....	\$.....	\$.....
Cash	7,443 36			
City Treas.....	30,337 17			
Shoe Account 3,273 41	3,273 41		4,456 71	
Salaries.....			81,817 03	
Brush Account 98,378 83	198,378 83			106,908 05
Expense 896 67	896 67		10,389 08	
Furniture 27,781 04	27,781 04		3,368 56	
Clothing and 29,576 48	29,576 48		13,034 11	
Fuel and L 298 24	298 24		20,046 60	
Medical At 228 74	228 74		3,874 96	
Hay and F 84 61	84 61		3,018 41	
Repairs—B 496 95	496 95		9,539 82	
Improvement.....			11,277 86	
Live Stock 3,352 00	3,352 00			20 49
Engine Acc 158 82	158 82		773 78	
Boiler Account.....			2,069 04	
Brush Mac 22,172 72	22,172 72		3,175 42	
General M 8,990 71	8,990 71		1,711 81	
Provision 5,457 05	5,457 05		91,023 72	
Laundry M 1,800 00	1,800 00			
Profit and L.....			183 68	
Accounts R.....	128,713 57			11,254 73
				94,706 16
403 25	403 25			1,791 54
				6,959 28
		159,121 96		
83,349 52	\$ 469,843 62	\$ 159,121 96	\$ 259,760 59	\$ 221,640 25
		310,721 66		
	\$ 469,843 62	\$ 469,843 62		
			\$ 95 83	
				\$ 38,216 17
			\$ 259,856 42	\$ 259,856 42
				38,216 17
				95 83
				\$ 33,120 34

Year 1888.

YE

ory.

80 97

94 90

16 27

78 16

22 38

16 50

60 00

82 60

66 48

25 00

11 05

03 74

94 63

83 65

00 00

23 00

88 13

YEAR ENDING DECEMBER 31, 1888.

Year.	Assets.		Profit and Loss.	
	Resources.	Liabilities.	Expenses.	Gains.
	\$.....	\$.....	\$.....	\$.....
	7,986 98			
80 97	41,230 97			20,011 89
94 90	494 90		783 86	
			17,842 19	
96 27	16 27		1,728 48	
98 16	5,978 16		433 80	
92 38	5,922 38		2,500 86	
96 50	46 50		4,000 99	
90 00	50 00		743 13	
92 60	32 00		547 34	
96 48	166 48		1,092 41	
			4,351 40	
95 00	725 00		100 00	
91 05	41 05		123 07	
			1,543 32	
93 74	4,803 74		342 13	
94 63	2,694 63		229 25	
93 05	1,283 05		17,133 65	
90 00	1,800 00			
	30,098 97			
				1,259 98
				18,605 57
93 00	23 00			211 39
				17 78
		\$ 32,533 73		
98 13	\$ 103,444 08	\$ 32,533 73	\$ 53,495 88	\$ 40,106 61
		70,910 35		
	\$ 103,444 08	\$ 103,444 08		\$ 13,89 27
			\$ 53,495 88	\$ 53,495 88

Exhibits.

SUPERINTENDENT'S REPORT.

EXHIBIT "A."

STATEMENT OF RECEIPTS AND DISBURSEMENTS.

1888.	RECEIPTS.		
January 1.	Cash in hands of Superintendent.....	\$ 4,323 53	
	" City Treasurer.....	5,167 77	
	Cash receipts for the year.....	\$102,369 17	\$ 9,491 30
	" tax levied, net.....	15,724 06	
			118,093 23
			127,584 54
	DISBURSEMENTS.		
	Cash paid by warrants on City Treasurer	119,597 55	
	Balance on hand with City Treasurer.....	7,986 98	4
			\$ 127,584 53

REPORT OF THE WORKHOUSE.

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EXHIBIT "A."—Continued.

DETAILED STATEMENT OF RECEIPTS.

1888.			
Dec. 31.	Received on brush account.....		\$ 81,123 64
	" from boarding Cuyahoga Co. prisoners.....	\$ 11,596 75	
	" " sundry county prisoners.....	7,206 86	
	" " United States prisoners.....	204 11	
	Received from transporting prisoners from Cen. Station	480 00	
	" fines—city cases.....	1,259 98	
	" repairing shoes.....	41 45	
	" repairing clothes.....	12 00	
	" tax levied, net.....	15,724 06	
	" sale rags.....	23 08	
	" waste paper.....	28 40	
	" manure.....	6 50	
	" varnish barrels.....	5 00	
	" bristle casks.....	3 95	
	" sand paper.....	1 36	
	" spirits copal.....	1 10	
	" kindling wood.....	11 00	
	" molasses barrels.....	13 75	
	" flour barrels.....	167 64	
	" pork barrels.....	7 75	
	" kraut barrels.....	2 00	
	" tallow.....	45 01	
	" old iron.....	68 91	
	" lead pipe.....	2 00	
	" brass.....	35 00	
	" flour sacks.....	4 15	
	Received for painting hand sled (C. Lusk).....	50	
	" making tool box (J. H. O'Brien).....	2 50	
	" use of team, half day (W. D. Patterson)...	3 00	
	Received interest on J. F. Smith account.....	11 78	36,969 59
			\$ 118,093 23

EXHIBIT

STATEMENT SHOWING EXPENSES AND PROFITS OF

1888.	EXPENSES.		
D.c. 31.	Cost of—		
	Special improvements.....	\$ 4,351 40	
	Shoe account.....	783 96	
	Salaries.....	17,842 19	
	Sundry supplies.....	1,728 48	
	Furniture and fixtures.....	433 80	
	Clothing and bedding.....	2,500 86	
	Fuel and light	4,000 99	
	Medical attendance.....	618 00	
	Medical supplies	125 13	
	Hay and feed.....	547 34	
	Improvement and repairs.....	1,092 41	
	Live stock.....	100 00	
	Engine supplies.....	123 07	
	Boiler account	1,543 32	
	Brush implement.....	342 13	
	Implement	229 25	
	Provision.....	17,133 65	
			\$ 53,496 88

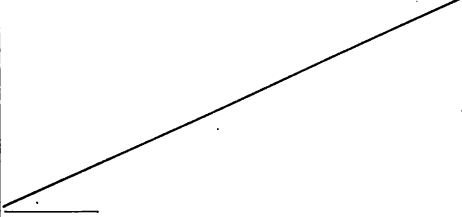
EXHIBIT

STATEMENT SHOWING THE RUNNING EXPENSES AND PROFITS OF

1888.	Cost of—	EXPENSES.		
Dec. 31.	Shoes.....		\$ 783 86	
	Salaries.....		17,842 19	
	Sundry supplies.....		1,728 48	
	Furniture and fixtures.....		433 80	
	Clothing and bedding.....		2,500 86	
	Fuel and light		4,000 99	
	Medical services.....		618 00	
	Medical supplies.....		125 13	
	Hay and feed.....		547 34	
	Improvement and repairs		1,092 41	
	Engine supplies.....		123 07	
	Boiler account.....		1,543 32	
	Provision.....		17,138 65	
				\$ 48,473 10

"B 2."

CLEVELAND WORKHOUSE AND HOUSE OF REFUGE.

1888.	GAINS—	GAINS.	
Dec. 31.	In manufacture of brushes.....	\$ 20,011 89	
	In manufacture of shoes	211 39	
	In boarding prisoners.....	18,605 57	
	In permanent improvements	4,351 40	
		\$ 43,180 25	
	Net expense of maintaining the running expenses of Workhouse and Refuge.....	5,292 85	
			
			\$ 48,473 10

EXHIBIT

STATEMENT SHOWING ASSETS AND LIABILITIES OF

1888.	ASSETS.		
Dec. 31.	Cash in hand of City Treasurer.....	\$ 7,986 98	
	Book accounts.....	30,098 97	
	School books, stationery, etc.....	16 27	
	Shoes.....	494 90	
	Furniture and fixtures.....	5,975 16	
	Clothing and bedding.....	5,922 38	
	Fuel.....	46 50	
	Medicine and drugs.....	50 00	
	Hay and feed.....	32 00	
	Lumber.....	166 48	
	Oil, waste, etc.....	41 05	
	Live stock.....	725 00	
	Brush stock—manufactured.....	\$ 7,329 38	
	Brush stock—raw.....	33,951 59	41 29 97
	Brush implement.....	4,803 74	
	General implement.....	2,694 63	
	Provision.....	1,283 05	
	Laundry machinery.....	1,000 00	
	Shoe shop tools and material.....	23 00	
			\$ 103,444 08

"C."

CLEVELAND WORKHOUSE AND HOUSE OF REFUGE.

1888.	LIABILITIES.		
Dec. 31.	Book accounts.....	\$ 32,533 73	
	Assets in excess of liabilities	70,910 35	
			\$ 103 444 08
			\$ 103,444 08

EXHIBIT

STATEMENT SHOWING MONTHLY BILLS APPROVED AND

1888.			
January	Bills audited.....	\$ 8,583 48	
February ...	"	7,911 75	
March	"	11,893 78	
April	"	9,927 75	
May	"	10,816 84	
June	"	9,935 68	
July	"	8 025 19	
August	"	10,517 31	
September..	"	8,782 85	
October	"	9,919 80	
November..	"	12 9 2 56	
December...	"	11.8 0 52	
			\$ 121,257 49
Add for bills not yet audited		\$ 20 653 21	
Add for December bills, 1887, paid in 1888.....		10,220 58	
			30,873 79
			\$ 152,131 28

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SENT TO THE CITY AUDITOR FOR PAYMENT.

1888.			
Dec. 31.	Warrants drawn to date.....	\$ 119,597 55	
	Amount of unpaid bills at this date	32,533 73	
			\$ 152,131 28

"E."

CASH ACCOUNT.

1888.			
January	Cash deposited in City Treasury.....	\$ 9,867 04	
February ...	" "	5,925 08	
March	" "	9,370 16	
April	" "	17,142 73	
May	" "	8,984 40	
June.....	" "	8,863 12	
July	" "	8,065 02	
August	" "	9,616 70	
September..	" "	10,539 54	
October.....	" "	9,207 56	
November ..	" "	4,562 39	
December...	" "	20,273 02	
			\$ 122,416 76

EXHIBIT

STATEMENT OF WORKHOUSE AND HOUSE OF REFUGE,

1888.			
Jan. 1.	Balance in hands of City Treasurer.....	\$ 5,167 77	
	Cash deposited by Superintendent.....	122,416 76	
			\$ 127,584 53

"F."

SHOWING FUNDS IN CITY TREASURY.

1888.			
Dec 31.	Warrants paid by City Treasurer.....	\$ 119,597 55	
	Balance in hands of City Treasurer.....	7,966 98	
			\$ 127,564 53

ABSTRACT OF ACCOUNTS.

		DR.	CR.
1888.	BRUSH ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 45,279 72	
Dec. 31.	" purchases during the year.....	60,479 41	
	" salary of foreman and assistant.....	1,418 45	
	" freight paid.....	1,866 71	
	" discount allowed.....	2,254 19	
	" interest paid.....	877 32	
	" net profit of this account.....	20,011 89	
Dec. 31.	By sale of brushes.....		\$ 90,879 31
	" bristle casks.....		3 95
	" varnish barrels.....		10 00
	" sand paper.....		1 36
	" kindling wood.....		11 00
	" spirits of copal.....		1 10
	Inventory { Manufactured..... \$ 7,329 38		
	{ Raw..... 33,951 59		41,280 97
		\$132,187 69	\$ 132,187 69
1888.	SHOE SHOP ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 89 25	
Dec. 31.	" purchases during the year.....	228 86	
	" profit and loss on this account.....	211 39	
Dec. 31.	By shoe repairs for employees.....		\$ 41 45
	" shoes, Workhouse and Refuge.....		465 05
	" balance on hand.....		23 00
		\$ 529 50	\$ 529 50

		Dr.	Cr.
1888.	SHOE ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 472 25	
Dec. 31.	" purchases during the year.....	806 51	
Dec 31.	By balance on hand.....		\$ 494 90
	" expense of this account.....		783 86
		\$ 1,278 76	\$ 1,278 76
1888.	PROVISION ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 974 59	
Dec. 31.	" purchases during the year.....	17,719 73	
Dec. 31.	By sale of flour barrels.....		\$ 182 34
	" pork barrels.....		6 25
	" kraut barrels.....		2 00
	" molasses barrels.....		11 75
	" tallow.....		71 13
	" flour sacks.....		4 15
	By balance on hand.....		1,283 05
	Expense of this account.....		17,133 65
		\$ 18,694 32	\$ 18,694 32
1888.	FURNITURE AND FIXTURES.		
Jan'y 1.	To balance on hand.....	\$ 6,011 65	
Dec. 31.	" purchases during the year.....	400 31	
Dec. 31.	By balance on hand.....		\$ 5,978 16
	Expense of this account.....		433 80
		\$ 6,411 96	\$ 6,411 96

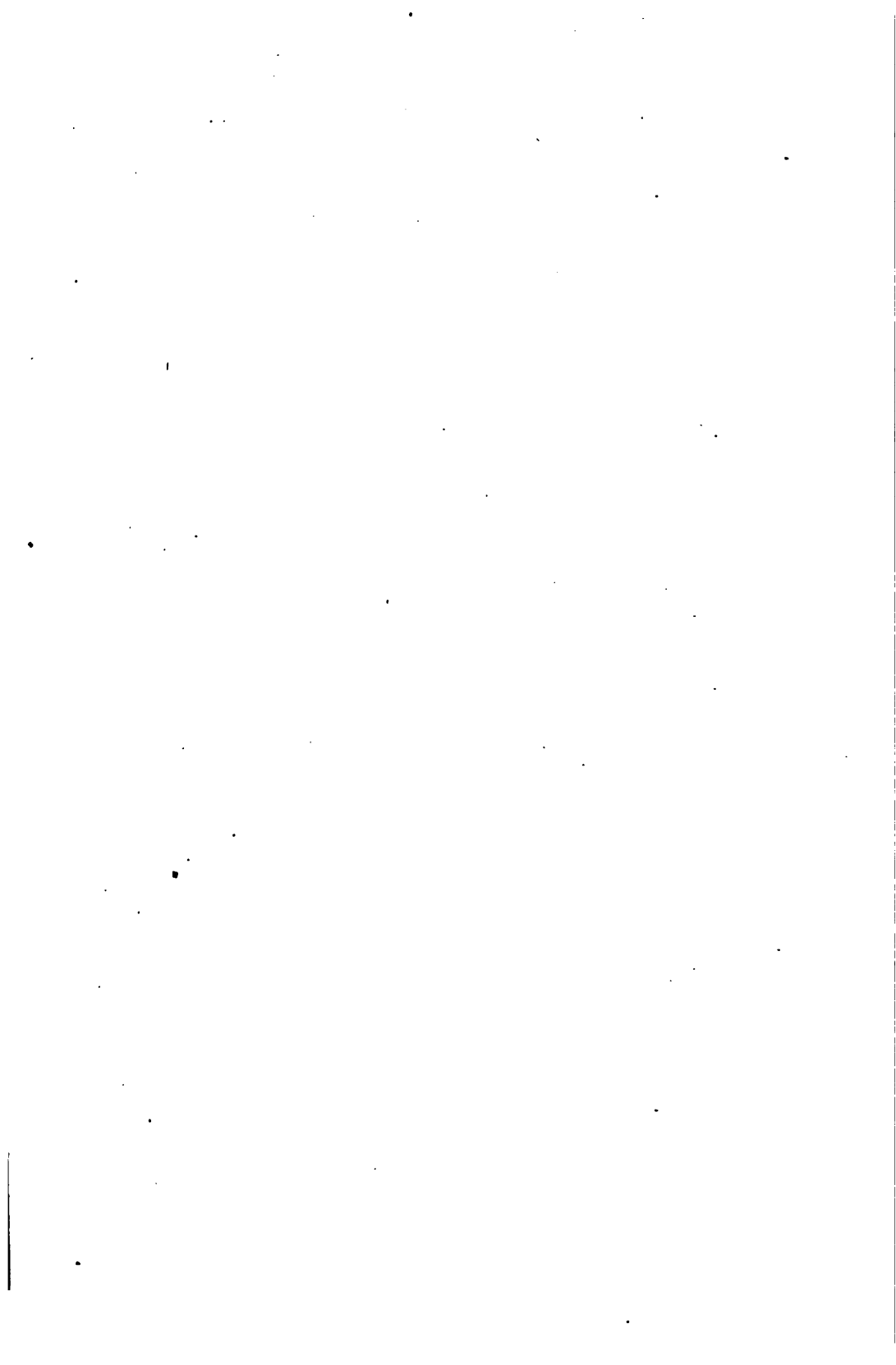
REPORT OF THE WORKHOUSE.

		Dr.	Cr.
1888.	CLOTHING AND BEDDING.		
Jan'y 1.	To balance on hand.....	\$ 5,996 62	
Dec. 31.	" purchases during the year.....	2 457 80	
Dec. 31.	By sale of rags.....		\$ 19 18
	" repairs to clothing for employees.....		12 00
	" balance on hand.....		5,922 38
	Expense of this account.....		2,500 86
		\$ 8,454 42	\$ 8,454 42
1888.	SUNDRY SUPPLIES.		
Jan'y 1.	To balance on hand.....	\$ 217 12	
Dec. 31.	" purchases during the year.....	1,576 59	
Dec. 31.	By sale of waste paper.....		\$ 48 95
	" balance on hand.....		16 27
	Expense of this account.....		1,728 48
		\$ 1,793 71	\$ 1,793 71
1888.	BRUSH IMPLEMENT.		
Jan'y 1.	To balance on hand.....	\$ 4,841 26	
Dec. 31.	" purchases during the year.....	343 28	
Dec. 31.	By sale of old iron.....		\$ 38 67
	" balance on hand.....		4,903 74
	Expense of this account.....		342 13
		\$ 5,184 54	\$ 5,184 54
1888.	MEDICAL SERVICES AND SUPPLIES.		
Jan'y 1.	To balance on hand.....	\$ 60 00	
Dec. 31.	" professional services.....	618 00	
	" drugs and medicines.....	115 13	
Dec. 31.	By balance on hand.....		\$ 50 00
	Expense of this account.....		743 13
		\$ 793 13	\$ 793 13

		Dr.	Cr.
1888.	FUEL AND LIGHT.		
Jan'y 1.	To balance on hand.....	\$ 129 81	
Dec. 31.	" purchases during the year.....	3,917 68	
Dec. 31.	By balance on hand.....		\$ 46 50
	Expense of this account.....		4,000 99
		\$ 4,047 49	\$ 4,047 49
1888.	IMPLEMENT ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 1,912 50	
Dec. 31.	" purchases during the year.....	1,011 38	
Dec. 31.	By balance on hand.....		\$ 2,094 63
	Expense of this account.....		229 25
		\$ 2,923 88	\$ 2,923 88
1888.	LIVE STOCK.		
Jan'y 1.	To balance on hand.....	\$ 600 00	
Dec. 31.	" purchases during the year.....	2 5 00	
Dec. 31.	By balance on hand.....		\$ 725 00
	Expense of this account.....		100 00
		\$ 825 00	\$ 825 00
1888.	IMPROVEMENT AND REPAIRS.		
Jan'y 1.	To balance on hand.....	\$ 77 69	
Dec. 31.	" purchases during the year.....	1,254 34	
Dec. 31.	By sale of old iron.....		\$ 36 14
	" lead pipe.....		2 00
	" brass.....		85 00
	By balance on hand.....		166 48
	Expense of this account.....		1,092 41
		\$ 1,332 03	\$ 1,332 03

		Dr.	Cr.
1888.	HAY AND FEED.		
Jan'y 1.	To balance on hand.....	\$ 12 61	
Dec. 31.	" purchases during the year.....	591 42	
Dec. 31.	By sale of manure.....		\$ 24 69
	" balance on hand.....		32 00
	Expense of this account.....		547 31
		\$ 604 03	\$ 604 03
1888.	SALARIES ACCOUNT.		
Dec. 31.	To salaries during the year.....	\$ 20,340 64	
	By salary of brush foreman.....		\$ 866 66
	" assistant brush foreman.....		551 79
	" physician.....		600 00
	By transporting prisoners from Central Station.....		480 00
	Expense of this account.....		17,842 19
		\$ 20,340 61	\$ 20,340 64
1888.	ENGINE ACCOUNT.		
Jan'y 1.	To balance on hand.....	\$ 24 60	
Dec. 31.	" purchases during the year.....	147 52	
Dec. 31.	By sale of oil barrels.....		\$ 8 00
	" balance on hand.....		41 05
	Expense of this account.....		123 07
		\$ 172 12	\$ 172 12

		Dr.	Cr.
1888.	SPECIAL IMPROVEMENTS.		
Dec. 31.	By purchases during the year.....	\$ 4,351 40	
Dec. 31.	Expense of this account.....		\$ 4,351 40
		\$ 4,351 40	\$ 4,351 40
1888.	LAUNDRY MACHINE ACCOUNT.		
Dec. 31.	To purchases during the year.....	\$ 1,800 00	
Dec. 31.	By balance on hand.....		\$ 1,800 00
		\$ 1,800 00	\$ 1,800 00



Statistical Tables.

STATEMENT OF ACCOUNTS OF FINES AND COSTS COL-
LECTED BY THE SUPERINTENDENT, IN CITY
AND STATE CASES FOR THE YEAR 1888.

	City Cases.	State Cases.	Total.
January	\$ 110 65	\$ 172 31	\$ 282 96
February	130 59	36 64	167 23
March.....	64 23	352 93	417 16
April.....	83 07	117 16	200 23
May	256 43	581 54	837 97
June.....	163 30	275 39	438 69
July.....	86 42	339 75	426 17
August.....	122 57	302 76	425 33
September	102 40	189 92	292 32
October	184 35	367 09	551 44
November	144 56	328 43	472 99
December.....	220 99	117 45	338 44
Total	\$ 1,669 56	\$ 3,181 37	\$ 4,850 93

TABLE NO. I.
WORKHOUSE POPULATION.

	Males.	Females.	Total.
Remaining January 1, 1888.....	286	43	329
Whole number committed during 1888.....	2,057	400	2,457
Total.....	2,343	443	2,786
Discharged during 1888.....	20,53	389	2,442
Total remaining December 31, 1888.....	290	54	344

TABLE NO. 2.
NUMBER RECEIVED EACH MONTH.

Months.	Males.	Females.	Total.
Remaining January 1, 1888.....	286	43	329
Received during January.....	179	19	198
" February.....	133	31	164
" March.....	152	27	179
" April.....	154	27	181
" May.....	160	43	203
" June.....	221	35	256
" July.....	160	35	196
" August.....	154	49	203
" September.....	151	41	192
" October.....	197	27	224
" November.....	163	28	191
" December.....	233	37	270
Total.....	2,343	443	2,786
Discharged during 1888.....	2,053	389	2,442
Remaining December 31, 1888.....	290	54	344

TABLE NO. 3.
DISCHARGED DURING EACH MONTH.

Months.	Males.	Females.	Total.
Discharged during January.....	173	23	196
“ February	147	29	176
“ March.....	156	33	189
“ April	164	26	190
“ May.....	180	28	208
“ June.....	219	44	263
“ July.....	203	28	231
“ August.....	152	43	195
“ September.....	142	35	177
“ October.....	179	37	216
“ November.....	174	32	206
“ December.....	164	31	195
Total.....	2,053	389	2,442

TABLE No. 4.
MONTHLY AVERAGE OF CONFINEMENT DURING THE
YEAR 1888.

Months.	Males.	Females.	Total.
Average during January.....	284.71	43.14	327.85
" February.....	282.64	40.32	322.96
" March.....	274.58	37.41	311.99
" April.....	275.26	36.42	311.68
" May.....	260.03	42.19	302.22
" June.....	254.91	47.46	302.37
" July.....	223.57	45.63	269.20
" August.....	205.14	55.94	261.08
" September.....	204.19	59.72	263.91
" October.....	232.18	58.53	290.71
" November.....	222.37	47.43	269.80
" December.....	261.04	50.83	311.87
Monthly attendance for the year.....	248.39	47.08	295.47

TABLE NO. 5.
HOW DISCHARGED DURING THE YEAR.

	Males.	Females.	Total.
Labor.....	1,445	266	1,711
Labor and cash.....	371	89	460
" fine remitted.....	4	0	4
" pardon	6	0	6
" escape.....	8	0	6
" pardon and cash.....	2	0	2
Expiration	19	0	19
" fine and costs paid	39	14	53
" and costs paid.....	31	4	35
" fine remitted and cost paid.....	3	0	3
Escape	1	0	1
Fine and costs paid.....	56	13	69
Costs paid.....	7	0	7
Pardon	1	1	2
" sent to Infirmary.....	8	1	9
Returned to court.....	2	0	2
Habeas corpus.....	2	0	2
Death	4	0	4
Order of Mayor of Youngstown.....	18	0	18
" " Akron	9	1	10
" " New Philadelphia.....	1	0	1
" " Crestline.....	3	0	3
" " Salem.....	3	0	3
" " Berea.....	1	0	1
" " Ravenna.....	1	0	1
" " Dalton	1	0	1
" " Seville.....	2	0	2
" " Leetonia.....	1	0	1
" " Upper Sandusky.....	1	0	1
" " Lorain	2	0	2
" " Alliance	2	0	2
" " New Lisbon.....	1	0	1
Total.....	2,053	389	2,442

TABLE NO. 6.
INDIVIDUAL COMMITMENTS.

	Males.	Females.	Total.
First Commitment	1,128	104	1,232
Second "	315	45	360
Third "	148	22	170
Fourth "	70	19	89
Fifth "	47	18	65
Sixth "	46	18	64
Seventh "	29	13	42
Eighth "	32	10	42
Ninth "	19	12	31
Tenth "	19	14	33
Eleventh "	23	11	34
Twelfth "	22	12	34
Thirteenth "	24	8	32
Fourteenth "	20	4	24
Fifteenth "	12	6	18
Sixteenth "	8	5	13
Seventeenth "	5	5	10
Eighteenth "	5	7	12
Nineteenth "	10	8	18
Twentieth "	9	5	14
Twenty-first "	6	6	12
Twenty-second "	3	6	9
Twenty-third "	3	4	7
Twenty-fourth "	2	5	7
Twenty-fifth "	3	3	6
Twenty-sixth "	3	5	8
Twenty-seventh "	3	4	7
Twenty-eighth "	2	2	4

TABLE NO. 6.—*Continued.*

	Males.	Females.	Total.
Twentieth-ninth commitment.....	4	1	5
Thirtieth ".....	4	1	5
Thirty-first ".....	9	2	11
Thirty-second ".....	6	2	8
Thirty-third ".....	4	2	6
Thirty-fourth ".....	3	2	5
Thirty-fifth ".....	3	2	5
Thirty-sixth ".....	2	1	3
Thirty-seventh ".....	2	0	2
Thirty-eighth ".....	0	1	1
Thirty-ninth ".....	0	1	1
Fortieth ".....	0	1	1
Forty-first ".....	0	1	1
Forty-second ".....	2	1	3
Forty-third ".....	1	1	2
Forty-fourth ".....	1	0	1
Total	2,057	400	2,457

TABLE NO. 7.
COMMITTED FROM THE FOLLOWING COURTS.

	Males.	Females.	Total.
Common Pleas Court	17	0	17
" Crawford County.....	2	0	2
" Medina " 	4	0	4
" Lorain " 	7	0	7
" Marion " 	4	0	4
" Mahoning " 	1	0	1
" Columbiana " 	1	0	1
" Wayne " 	8	0	8
" Lake " 	2	0	2
" Portage " 	1	0	1
" Morrow " 	1	0	1
" Trumbull " 	1	0	1
" Jefferson " 	10	0	10
" Holmes " 	2	0	2
" Harrison " 	1	0	1
Probate Court, Summit County.....	7	0	7
" Mahoning " 	4	0	4
" Jefferson " 	2	0	2
" Lake " 	2	0	2
" Lorain " 	2	0	2
" Portage " 	3	0	3
" Trumbull " 	3	0	3
" Carroll " 	2	0	2
" Columbiana " 	1	0	1
Mayor of Youngstown.....	58	12	70
" Steubenville.....	15	1	16
" Akron.....	67	13	80
" Marion.....	3	3	6
" Elyria.....	3	0	3
" New Lisbon.....	1	1	2
" Warren.....	9	2	11
" Ravenna.....	7	5	12

TABLE NO. 7.—*Continued.*

	Males.	Females.	Total.
Mayor of Dalton	1	0	1
“ Norwalk	2	0	2
“ Berea	1	0	1
“ Oberlin	1	0	1
“ Galion	10	1	11
“ Seville	2	0	2
“ Alliance	5	0	5
“ Collinwood	6	0	6
“ Lorain	5	0	5
“ La Rue	1	0	1
“ Niles	2	0	2
“ Columbiana	1	0	1
“ Crestline	10	0	10
“ New Philadelphia	2	1	3
“ Leetonia	6	0	6
“ Wellsville	6	2	8
“ Salem	10	3	13
“ Upper Sandusky	1	0	1
Justice Peace Court	9	1	10
“ Columbiana County	24	2	26
“ Lake “	9	0	9
“ Jefferson “	10	0	10
“ Medina “	3	0	3
“ Trumbull “	2	0	2
“ Mahoning “	5	0	5
“ Lorain “	2	0	2
United States District Court	1	0	1
Police Court	1,669	353	2,022
Total	2,057	400	2,457

TABLE NO. 8.

Color.	Males.	Females.	Total.
White	1,946	376	2,322
Colored	111	24	135
Total.....	2,057	400	2,457

TABLE NO. 9.
AGE WHEN ADMITTED.

	Males.	Females.	Total.
Under twenty.....	168	26	194
Twenty and under thirty	757	127	884
Thirty and under forty	557	112	669
Forty and under fifty.....	344	69	413
Fifty and under sixty.....	174	55	229
Sixty and under seventy	46	10	56
Seventy and under eighty	11	1	12
Total.....	2,057	400	2,457

TABLE NO. 10.
NATIVITY.

	Males.	Females.	Total.
United States.....	1,316	205	1,521
Ireland.....	237	118	355
Germany.....	132	16	148
England.....	126	18	144
Canada.....	67	25	92
Scotland.....	66	17	83
Switzerland.....	14	1	15
Wales.....	10	0	10
Bohemia.....	17	0	17
Poland.....	9	0	9
Denmark.....	3	0	3
France.....	7	0	7
Italy.....	3	0	3
Prussia.....	2	0	2
Hungary.....	14	0	14
Australia.....	2	0	2
Sweden.....	8	0	8
Nova Scotia.....	1	0	1
Finland.....	3	0	3
New Brunswick.....	2	0	2
Norway.....	5	0	5
South America.....	4	0	4
Russia.....	2	0	2
Austria.....	6	0	6
New Foundland.....	1	0	1
Total.....	2,057	400	2,457

TABLE NO. II.
EDUCATION.

	Males.	Females.	Total.
Could read and write	1,834	267	2,101
Could read only.....	46	47	93
Could neither read nor write	177	86	263
Total.....	2,057	400	2,457

TABLE NO. 12.
RELIGIOUS BELIEF.

	Males.	Females.	Total.
Catholics	1,142	216	1,358
Protestants	898	184	1,082
Atheists.	9	0	9
Jews.....	8	0	8
Total.....	2,057	400	2 457

TABLE No. 13.
HABITS OF LIFE.

	Males.	Females.	Total.
Confessed themselves intemperate.....	1,912	381	2,293
Claimed to be temperate.....	145	19	164
Total.....	2,057	400	2,457

TABLE NO. 14.
SOCIAL RELATIONS.

	Males.	Females.	Total.
Married.....	625	301	926
Single.....	1,532	99	1,631
Total.....	2,057	400	2,457

TABLE NO. 15.
OCCUPATION.
MEN.

Axe maker.....	1
Agents.....	2
Barbers.....	35
Blacksmiths.....	34
Bakers.....	10
Bar tender.....	1
Boiler makers.....	26
Book-keepers.....	5
Bricklayers.....	11
Butchers.....	37
Brickmakers.....	4
Brewers.....	5
Brass mounters.....	2
Brass finishers.....	10
Brakemen.....	12
Basket maker.....	1
Book binder.....	1
Bolt makers.....	8
Brush maker.....	1
Bottler.....	1
Carpenters.....	74
Chair makers.....	4
Cigar makers.....	26
Clerks.....	25
Coopers.....	13
Common travelers.....	3
Cooks.....	37

TABLE NO. 15.—*Continued.*

MEN.

Coal miners.....	4
Cabinet makers.....	5
Coachmen.....	1
Carrier.....	5
Carriage makers.....	1
Contractor.....	1
Conductor.....	1
Coat maker.....	1
Compositor.....	1
Chemist.....	1
Collar maker.....	1
Dyer.....	12
Engineers.....	80
Firemen.....	6
Farmers.....	3
Finishers.....	2
Florists.....	1
Furniture finisher.....	1
Forgeman.....	1
Gardeners.....	6
Gas fitters.....	3
Glass blowers.....	12
Grooms.....	2
Gravel roofer.....	1
Hostler.....	1
Hack drivers.....	2
Harness makers.....	4
Horse shoers.....	8
Hatter.....	1
Iron workers.....	3
Laborers.....	863
Lawyers.....	2
Lathers.....	5
Laundrymen.....	2
Locksmith.....	1
Lithographer.....	1
Liveryman.....	1
Millers.....	2

TABLE NO. 15.—*Continued.*

MEN.

Machinists.....	38
Moulders.....	49
Masons.....	2
Miners.....	2
Musicians.....	2
Merchant.....	1
Magician.....	1
Nailers.....	4
News agent.....	1
Potters.....	5
Paper hangers.....	2
Pattern makers.....	2
Peddlers.....	6
Polishers.....	5
Plasterers.....	3
Puddlers.....	22
Painters.....	108
Printers.....	9
Porters.....	3
Plumbers.....	4
Planers.....	2
Physician.....	1
Quarrymen.....	2
Railroaders.....	2
Roughers.....	2
Saddlers.....	2
Sailors.....	103
Shoemakers.....	36
Spring makers.....	2
Stone cutters.....	13
Saloon keepers.....	3
Slate roofers.....	2
Steam fitters.....	9
Saw filer.....	1
Stone masons.....	6
Salesmen.....	7
Stewards.....	2
Steel polisher.....	1

TABLE NO. 15.—*Continued.*

MEN.

Sawyers.....	2
Stove mounters.....	2
Shingle maker.....	1
Switchman.....	1
Ship carpenters.....	3
Safe mover.....	1
Street car driver.....	1
Slater.....	1
Shaper.....	1
Tamers.....	2
Timers.....	8
Teamsters.....	7
Tailors.....	23
Telegraph operators.....	2
Turners.....	3
Tool grinder.....	1
Tinners.....	3
Tin smiths.....	27
Tin roofer.....	1
Tanner.....	1
Upholsterers.....	3
Undertakers.....	2
Varnishers.....	3
Waiters.....	13
Whitewashers.....	9
Well digger.....	1
Wire drawers.....	2
Wood turners.....	5
Wood finisher.....	1
Watch makers.....	8
Weavers.....	3
Total number of men.....	2,167

WOMEN.

Cooks.....	13
Clairvoyant.....	1
Dressmakers.....	1

TABLE NO. 15.—*Continued.*

WOMEN.

Hair dresser.....	1
Housework	357
Laundress.....	11
Musicians.....	3
Seamstress.....	4
Tailoress.....	3
Waiters.....	2
Total number of women.....	400

RECAPITULATION.

Total number of men.....	2,057
Total number of women.....	400
Total number of men and women.....	2,457

TABLE NO. 16.
NATURE OF OFFENSES.

	Males.	Females.	Total.
Assault.....	6	1	7
" and battery.....	94	4	98
" " and intoxication.....	13	1	14
" " and disorderly conduct.....	1	0	1
" " and disturbance.....	4	0	4
" and threaten.....	8	1	9
Adultery.....	3	0	3
Attempt to escape from Workhouse.....	1	0	1
Abuse of family.....	1	0	1
Assisting person to escape.....	1	0	1
Affray and intoxication.....	1	0	1
Breaking into a house in daytime.....	1	0	1
Breaking into a railroad car.....	3	0	3
Burglary.....	1	0	1
Carrying concealed weapons.....	8	0	8
" " and intoxication.....	2	0	2
Cruelty to animals.....	3	0	3
Common beggar.....	23	3	26
" prostitute.....	0	9	9
Careless driving.....	2	0	2
Destroying property.....	10	2	12
Defacing schoolhouse.....	2	0	2
Defrauding hotel keeper.....	1	0	1
Disorderly conduct.....	63	29	92
" and intoxication.....	11	3	14
Disturbance.....	39	7	46
" and intoxication.....	7	0	7
Execution.....	10	6	16

TABLE No. 16.—*Continued.*

	Males.	Females.	Total.
Embezzlement	4	0	4
Extinguishing street lamps	1	0	1
Fornication.....	2	1	3
House-breaking and stealing.....	1	0	1
House-breaking.....	2	0	2
Intoxication.....	1,134	288	1,420
" and petit larceny.....	16	0	16
" and disorderly conduct.....	5	0	5
" and vagrancy.....	6	0	6
Indecent exposure.....	6	0	6
Keeping a house of ill fame	4	12	16
Known thieves.....	1	0	1
Larceny	15	0	15
Neglecting minor children.....	5	0	5
Obtaining money by false pretense.....	3	1	4
" goods	4	0	4
" board and lodge by false pretense.....	2	0	2
Petit larceny.....	221	16	237
Pointing and aiming a pistol	1	0	1
Practicing a trick with intent to swindle	2	0	2
Receiving stolen property	1	0	1
Residing in a house of ill fame.....	4	9	13
Resisting an officer	12	1	13
Suspicious person	19	0	19
" and intoxication.....	2	0	2
Selling intoxicating liquor to person in habit of getting intoxicated.....	4	0	4
Selling intoxicating liquor unlawfully.....	5	0	5
" " to minors.....	3	0	3
Unlawfully taking a horse.....	4	0	4
" using a horse.....	12	0	12
Using obscene language.....	2	0	2
Vagrancy	78	2	80
Visiting house of ill fame.....	9	4	13
Violating property ordinance.....	48	1	49

TABLE NO. 16.—*Continued.*

	Males.	Females.	Total.
Violating sidewalk ordinance.....	1	0	1
“ peddlers’ ordinance.....	2	0	2
“ health ordinance.....	1	0	1
“ Sunday liquor law.....	2	0	2
“ railroad law.....	89	0	89
“ cemetery law.....	0	1	1
“ local option law.....	5	0	5
Total.....	2,057	400	2,457

TABLE NO. 17.

Showing number of days' labor performed by inmates and articles manufactured by the same, for which no compensation is received, and which shows a great saving of money to the Institution for improvements, clothing, implements, etc.

MADE FOR MEN.	
Shoes	42
Shirts.....	283
Pants	79
Sheets	288
Roller towels.....	51
Pillow slips.....	181
Bed ticks.....	52
Total.....	976
MADE FOR BOYS.	
Coarse shirts	87
Woolen "	90
Pants	115
Work coats.....	162
Sheets	54
Shoes	105
Total.....	613
MADE FOR WOMEN.	
Dresses	34
Waists.....	61
Aprons	57
Undergarments	93
Pillow ticks.....	43
" slips.....	35
Bed ticks.....	21
Roller towels.....	27
Skirts.....	70
Shop aprons.....	39
Collars	122
Sheets	60
Shoes	3
Total.....	665

TABLE NO. 17.—*Continued.*

MADE FOR OFFICERS.	
Sheets.....	11
Napkins.....	60
Pillow slips.....	20
Towels.....	15
Bed ticks.....	7
Table cloths.....	24
Total.....	137

TABLE NO. 18.

NUMBER OF DAYS' LABOR PERFORMED BY CARPENTERS' DEPARTMENT

In repairing floors, closets, bake-house, laundry, ice house, ventilators,
and furniture, and manufacturing tables, work-benches,
vises, handscaws, etc., etc.

Months.	Days.
January	58
February	42½
March	45
April	36½
May	77½
June.....	98
July	88¾
August	66½
September	64
October	64¾
November	56
December.....	65
Total.....	762½

TABLE No. 19.
SHOWING SENTENCE OF PRISONERS COMMITTED FOR
THE YEAR 1888.

Number.		Days.	Fine and Cost.
17	Sentenced for.....		\$ 90
9	"		1 90
23	"		2 03
2	"		2 33
2	"		2 41
2	"		2 75
9	"		2 80
842	"		2 90
7	"		2 95
8	"		3 00
3	"		3 10
3	"		3 13
2	"		3 18
6	"		3 27
3	"		3 38
4	"		3 39
1	"		3 41
32	"		3 50
6	"		3 60
2	"		3 75
3	"		3 81
81	"		3 90
1	"		4 00
3	"		4 10
4	"		4 20
19	"		4 50
10	"		4 81
4	"		4 90
1	"		5 00
2	"		5 35
11	"		5 50
2	"		5 75

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
8	Sentenced for.....		\$ 5 81
65	"		5 90
2	"		6 00
2	"		6 07
5	"		6 56
4	"		6 80
4	"		6 95
2	"		7 00
1	"		7 21
4	"		7 50
61	"		7 75
3	"		7 90
3	"		8 15
1	"		8 29
6	"		8 50
2	"		8 75
1	"		8 76
1	"		8 80
1	"		8 90
1	"		9 00
2	"		9 32
3	"		9 75
7	"		9 81
2	"		9 92
3	"		10 00
1	"		10 46
6	"		10 60
3	"		10 81
3	"		10 86
11	"		10 90
1	"		11 27
2	"		11 40
5	"		11 76
1	"		11 92

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
5	Sentenced for.....		12 00
1	"		12 21
8	"		12 50
3	"		12 76
4	"		12 90
2	"		13 05
5	"		13 06
17	"		13 50
5	"		13 80
7	"		14 15
5	"		14 40
1	"		14 81
3	"		14 93
4	"		15 36
9	"		15 76
4	"		15 85
1	"		16 08
7	"		16 96
3	"		17 41
5	"		17 56
3	"		17 71
3	"		18 16
3	"		18 36
7	"		18 71
2	"		19 24
4	"		19 56
4	"		19 71
3	"		19 90
1	"		20 46
9	"		20 81
6	"		21 71
1	"		21 86
6	"		21 90
5	"		22 06

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
2	Sentenced for.....		\$ 22 97
5	"		23 10
2	"		23 56
1	"		24 81
2	"		25 01
1	"		25 76
4	"		25 90
2	"		26 62
9	"		26 90
1	"		27 09
1	"		27 25
1	"		28 57
1	"		29 40
1	"		29 63
1	"		29 80
1	"		29 81
6	"		30 35
3	"		30 40
1	"		30 86
1	"		31 61
3	"		31 95
1	"		32 25
1	"		33 16
1	"		33 56
1	"		33 85
2	"		34 21
3	"		34 47
6	"		35 86
3	"		36 10
3	"		36 66
1	"		37 10
2	"		37 16
1	"		38 10
1	"		38 21

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....		38 50
3	"		39 04
1	"		42 10
2	"		42 63
1	"		46 00
1	"		47 81
1	"		51 84
1	"		53 00
3	"		54 40
2	"		54 81
5	"		55 00
1	"		55 81
1	"		56 00
1	"		57 00
1	"		57 71
2	"		58 94
1	"		59 00
1	"		60 49
2	"		62 00
3	"		62 66
4	"		62 70
1	"		63 50
1	"		64 33
1	"		65 10
1	"		65 90
1	"		72 00
1	"		74 35
1	"		81 30
1	"		82 00
2	"		83 20
1	"		84 66
1	"		93 34
1	"		117 90
1	"		128 25

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....		\$ 128 40
1	"		132 98
2	"		144 05
1	"		165 93
1	"		206 96
1	"		212 85
1	"		217 95
1	"		348 71
3	"	10	
20	"	10	90
1	"	10	4 06
3	"	10	5 90
1	"	10	8 82
2	"	10	10 81
1	"	10	13 15
1	"	10	14 56
1	"	10	17 45
1	"	10	21 06
1	"	10	25 55
4	"	10	26 55
1	"	10	27 07
2	"	10	27 98
1	"	10	29 25
2	"	10	29 99
2	"	10	30 85
2	"	10	48 05
1	"	10	72 50
2	"	15	3 90
1	"	15	36 87
1	"	15	69 18
1	"	15	212 14
2	"	20	
1	"	20	10 00
1	"	20	14 88

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....	20	\$ 15 68
1	"	20	16 90
1	"	20	17 65
1	"	20	18 95
2	"	20	21 90
3	"	20	21 95
1	"	20	25 26
5	"	20	25 85
1	"	20	27 07
2	"	20	28 95
1	"	20	29 55
1	"	20	30 40
1	"	20	31 95
1	"	20	32 61
1	"	20	35 00
9	"	20	36 96
3	"	20	38 27
1	"	20	38 55
4	"	20	39 61
3	"	20	41 90
1	"	20	43 55
1	"	20	46 60
1	"	20	52 59
1	"	20	53 81
1	"	20	62 99
1	"	20	82 23
2	"	20	89 84
1	"	20	169 24
1	"	25	.....
1	"	25	12 66
14	"	30	.....
51	"	30	90
2	"	30	1 90
1	"	30	2 38

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
2	Sentenced for.....	30	\$ 3 09
6	".....	30	3 90
29	".....	30	4 15
1	".....	30	4 45
1	".....	30	4 65
2	".....	30	4 92
2	".....	30	5 15
8	".....	30	5 46
1	".....	30	5 71
3	".....	30	5 81
10	".....	30	5 90
1	".....	30	6 41
3	".....	30	6 46
1	".....	30	7 01
3	".....	30	7 40
2	".....	30	7 70
3	".....	30	7 75
1	".....	30	7 95
3	".....	30	8 00
1	".....	30	8 51
1	".....	30	8 90
2	".....	30	9 15
1	".....	30	9 76
1	".....	30	10 00
2	".....	30	10 40
4	".....	30	10 81
43	".....	30	10 90
3	".....	30	11 41
5	".....	30	11 55
4	".....	30	11 86
2	".....	30	12 59
2	".....	30	12 75
1	".....	30	12 86
4	".....	30	13 57

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....	30	\$ 13 86
1	"	30	14 06
39	"	30	14 15
5	"	30	14 65
5	"	30	14 81
2	"	30	15 46
3	"	30	15 96
2	"	30	16 15
5	"	30	16 73
3	"	30	17 00
2	"	30	17 21
4	"	30	17 40
1	"	30	17 73
2	"	30	17 86
2	"	30	18 96
2	"	30	19 11
2	"	30	19 80
2	"	30	20 61
2	"	30	21 61
3	"	30	22 65
3	"	30	23 36
3	"	30	24 55
1	"	30	25 52
53	"	30	25 90
5	"	30	25 98
3	"	30	26 96
1	"	30	27 66
1	"	30	28 95
36	"	30	29 15
1	"	30	29 45
1	"	30	29 65
2	"	30	30 09
4	"	30	30 15
1	"	30	30 27

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
6	Sentenced for.....	30	\$ 30 90
11	"	30	32 70
1	"	30	34 65
8	"	30	35 70
10	"	30	36 81
6	"	30	42 61
4	"	30	43 15
2	"	30	44 55
3	"	30	45 88
4	"	30	52 75
5	"	30	54 15
2	"	30	55 15
1	"	30	56 50
3	"	30	57 45
5	"	30	58 81
1	"	30	59 60
1	"	30	60 21
2	"	30	60 64
2	"	30	61 70
1	"	30	62 69
5	"	30	66 90
5	"	30	68 11
3	"	30	70 35
2	"	30	70 36
1	"	30	71 11
4	"	30	71 71
1	"	30	73 50
2	"	30	75 04
4	"	30	80 30
1	"	30	81 35
1	"	30	94 87
2	"	30	95 65
2	"	30	95 81
1	"	30	105 46

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....	30	\$ 107 97
1	"	30	108 21
1	"	30	110 56
1	"	30	114 77
1	"	30	115 74
1	"	30	116 61
1	"	30	116 79
2	"	30	117 64
2	"	30	118 50
2	"	30	119 53
1	"	30	120 81
3	"	30	121 41
1	"	30	122 50
1	"	30	122 75
1	"	30	124 42
1	"	30	125 66
1	"	30	136 73
1	"	30	137 32
1	"	30	185 16
1	"	30	191 99
1	"	30	206 41
3	"	30	207 46
1	"	30	208 21
1	"	30	210 31
1	"	30	213 00
1	"	30	228 12
1	"	30	232 00
1	"	30	239 24
1	"	30	258 26
1	"	40	
1	"	40	20 91
1	"	40	137 00
2	"	60	
1	"	60	1 90

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TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....	60	\$ 5 05
1	"	60	7 05
1	"	60	9 21
1	"	60	9 50
1	"	60	9 78
1	"	60	10 21
1	"	60	11 05
4	"	60	11 85
6	"	60	12 86
1	"	60	14 82
4	"	60	16 36
2	"	60	19 26
5	"	60	22 30
1	"	60	28 50
4	"	60	29 05
1	"	60	30 05
1	"	60	31 92
1	"	60	32 16
1	"	60	33 00
1	"	60	34 60
1	"	60	36 60
1	"	60	40 33
1	"	60	46 70
1	"	60	50 65
1	"	60	51 04
1	"	60	55 40
1	"	60	70 00
1	"	60	70 63
1	"	60	71 14
1	"	60	78 61
1	"	60	88 40
1	"	60	111 72
1	"	61	135 02
1	"	60	170 05

TABLE NO. 19.—*Continued.*

Number.		Days.	Fine and Cost.
1	Sentenced for.....	60	\$ 214 13
1	"	90	
1	"	90	14 99
1	"	90	21 66
1	"	90	32 00
2	"	90	47 80
1	"	90	51 40
1	"	90	52 10
2	"	90	72 55
1	"	90	76 50
1	"	90	98 63
1	"	90	107 50
1	"	90	121 39
1	"	90	122 79
1	"	90	145 71
1	"	90	154 00
1	"	90	324 65
		Months.	
1	Sentenced for.....	1	\$ 17 77
1	"	2	9 21
1	"	2	57 13
1	"	3	7 81
1	"	3	11 41
1	"	3	13 21
1	"	3	14 61
1	"	3	73 17
1	"	3	112 61
1	"	3	197 26
1	"	3	205 40
1	"	3	208 41
1	"	4	18 60
1	"	4	51 24

TABLE NO. 19.—*Continued.*

Number.		Months.	Fine and Cost.
1	Sentenced for.....	4	\$ 70 25
1	"	5	85 64
1	"	6	
1	"	6	7 41
1	"	6	113 79
1	"	6	120 66
1	"	6	207 46
1	"	6	209 80
1	"	6	210 61
1	"	6	211 52
1	"	6	358 68
1	"	6	637 38

HOUSE OF REFUGE STATISTICS.

TABLE NO. I.
POPULATION.

	Boys.	Girls.	Total.
Remaining January 1, 1888	131	2	133
Whole number committed during 1888.....	40	0	40
Total	171	2	173
Discharged during 1888	66	2	68
Total remaining December 31, 1888	105	0	105

TABLE NO. 2.
NUMBER RECEIVED EACH MONTH.

Months.	Boys.	Girls.	Total.
Remaining January 1, 1888	131	2	133
Received during January.....	1	0	1
" February	5	0	5
" March	3	0	3
" April.....	4	0	4
" May.....	4	0	4
" June	1	0	1
" July.....	3	0	3
" August.....	3	0	3
" September	3	0	3
" October	2	0	2
" November.....	5	0	5
" December	6	0	6
Total.....	171	2	173
Discharged during 1888	66	2	68
Total remaining December 31, 1888	105	0	105

TABLE NO. 3.
DISCHARGED DURING EACH MONTH OF THE YEAR 1888.

Months.	Boys.	Girls.	Total.
Discharged during January.....	14	2	16
" February.....	5	0	5
" March.....	2	0	2
" April	7	0	7
" May.....	10	0	10
" June.....	7	0	7
" July.....	1	0	1
" August	0	0	0
" September.....	7	0	7
" October.....	4	0	4
" November	5	0	5
" December	4	0	4
Total.....	66	2	68

TABLE NO. 4.
MONTHLY AVERAGE OF CONFINEMENT DURING THE
YEAR 1888.

Months.	Boys.	Girls.	Total.
Average during January.....	124.31	.97	125.28
" February.....	118.16	.00	118.16
" March.....	118.43	.00	118.43
" April.....	117.29	.00	117.29
" May.....	113.90	.00	113.90
" June.....	107.12	.00	107.12
" July.....	105.03	.00	105.03
" August.....	107.65	.00	107.65
" September.....	106.87	.00	106.87
" October.....	104.26	.00	104.26
" November.....	103.19	.00	103.19
" December.....	104.76	.00	104.76
Monthly average for the year.....	110.91	.08	110.99

TABLE NO. 5.
COMMITTED FROM THE FOLLOWING COURT.

	Boys.	Girls.	Total.
Police court.....	40	0	40

TABLE No. 6.
HOW DISCHARGED DURING THE YEAR.

	Boys.	Girls.	Total.
Received their honor	34	0	34
Pardoned	21	2	23
Paroled.....	10	0	10
Death.....	1	0	1
Total.....	66	2	68

TABLE NO. 7.
CRIMES AND OFFENSES.

	Boys.	Girls.	Total.
Incorrigible conduct.....	15	0	15
Petit larceny.....	13	0	13
Disorderly conduct.....	4	0	4
Vagrancy	3	0	3
Intoxication	2	0	2
Destroying property.....	2	0	2
Violating R. R. law.....	1	0	1
Total.....	40	0	40

TABLE NO. 8.
COLOR.

	Boys.	Girls.	Total.
White.....	38	0	38
Colored	2	0	2
Total	40	0	40

TABLE NO. 9.
PLACE OF NATIVITY.

	Boys.	Girls.	Total.
United States.....	31	0	31
England	2	0	2
Germany	5	0	5
Canada	2	0	2
Total.....	40	0	40

TABLE NO. 10.
RELIGIOUS TRAINING.

	Boys.	Girls.	Total.
Catholics	16	0	16
Protestants	24	0	24
Total.....	40	0	40

TABLE NO. II.
EDUCATION.

	Boys.	Girls.	Total.
Could read and write	32	0	32
Could read only.....	1	0	1
Could neither read nor write.....	7	0	7
Total.....	40	0	40

TABLE NO. 12.
SOCIAL RELATION.

	Boys.	Girls.	Total.
Having both parents.....	26	0	26
Having one parent only	8	0	8
Orphans	6	0	6
Total.....	40	0	40

TABLE NO. 13.
AGE WHEN ADMITTED.

	Boys.	Girls.	Total.
Under ten.....	1	0	1
Ten and under twelve.....	11	0	11
Twelve and under fifteen	22	0	22
Fifteen and under eighteen.....	6	0	6
Total.....	40	0	40



